

出國報告（出國類別：國際會議）

出席國際影響評估協會
（**International Association for
Impact Assessment, IAIA**）第 31 屆年
會出國報告書

服務機關：行政院環境保護署

姓名職稱：張專員同婉、鄭技士惠文

派赴國家：墨西哥

出國期間：100 年 5 月 28 日至 6 月 5 日

報告日期：100 年 7 月

目 錄

壹、出國目的	- 1 -
貳、行程	- 1 -
參、關於墨西哥合眾國（The United Mexican States）	- 2 -
肆、活動地點及內容	- 4 -
伍、參加人員	- 4 -
陸、IAIA 2011 年會概要	- 4 -
柒、心得及建議	- 11 -

附錄一：大會議程

附錄二：照片集錦

附錄三：論文摘要及簡報投影片

附錄四：公務出國期間國外人士個人資料彙整

壹、出國目的

國際影響評估協會 (International Association for Impact Assessment, IAIA) 持續致力於衝擊評估的改革及發展，並積極建立公眾參與之最佳平台，其成立於西元 1980 年，為一國際性民間組織，其涉足領域相當廣泛，包含環境、社會及健康等層面，在影響評估領域中，其年會為國際間最具規模者。期能藉由參與本次會議，瞭解國際間環境影響評估發展之趨勢，作為我國環境影響評估制度檢討與改進之參考，並透過參與會議及於會中分享「我國環境影響評估承諾執行之經驗 (Discuss the implement of EIA promises from the developers in Taiwan)」，進而達到與其他國家經驗交流與宣傳我國環評環境影響評估制度之效。

貳、行程

日期	地點	工作內容
5 月 28 日~29 日	台灣 (台北) 至墨西哥 (Puebla, 拍布拉)	啓程
5 月 30 日	墨西哥 (Puebla, 拍布拉)	技術參訪
5 月 31 日	墨西哥 (Puebla, 拍布拉)	開幕式及研討會
6 月 1 日	墨西哥 (Puebla, 拍布拉)	研討會
6 月 2 日	墨西哥 (Puebla, 拍布拉)	研討會
6 月 3 日	墨西哥 (Puebla, 拍布拉)	閉幕式
6 月 4 日~5 日	墨西哥 (Puebla, 拍布拉) 至台灣 (台北)	返程

参、關於墨西哥合眾國（The United Mexican States）

墨西哥合眾國通稱墨西哥（Mexico），位於北美洲，北部與美國接壤，東南與瓜地馬拉與貝里斯相鄰，西部是太平洋，東部有墨西哥灣與加勒比海的阻隔，沿海地區是海岸平原，而中部則是高原而且多山，包括許多火山。墨西哥氣候多樣，北部是熱帶沙漠氣候，南部則為熱帶雨林氣候。全國分為 31 個州及 1 個聯邦區，首都為墨西哥城（Mexico City），國土面積為 1,972,550 平方公里，人口約 11,234 萬人，官方語言為西班牙語，是人口最多的西班牙語國家，也是拉丁美洲第二人口大國，僅次於巴西，全國大約 60% 的人口為印歐混血人，30% 是印第安人後裔，9% 是歐洲後裔。它是一個天主教國家，全國 89% 的人口是天主教徒。

墨西哥是多個美洲文明的發源地，孕育了瑪雅、托爾特克和阿茲特克等文明。16 世紀初西班牙人荷南·科爾蒂斯侵略墨西哥，並在西元 1521 年擊潰了當地的阿茲特克人，墨西哥從此遭西班牙殖民，成為新西班牙的一部分。西元 1810 年墨西哥人宣布獨立，並與殖民者進行了獨立戰爭。他們最終在西元 1821 年獲得承認，墨西哥第一帝國成立，但其後被推翻，建立墨西哥合眾國。

本次會場位於墨西哥中部偏東的拍布拉（Puebla），其成立於西元 1531 年，距離墨西哥城約 2 小時車程，海拔 2,060 米，總面積 534.32 平方公里，總人口約 148 萬人，是墨西哥第四大城，經濟以紡織、汽車、食品工業為主。拍布拉又稱天使之城（La Angelopolis）、薩拉勾沙之城（Puebla de Zaragoza），以及塔拉維拉陶瓷（Talavera tiles）之城，市中心廣場（Zocalo）南邊大教堂（Cathedral）規模僅次於墨西哥市大教堂，圍牆上有數不清的天使守護。據說，西元 1649 年教堂

鐘塔建成後，工人嘗試將鐘抬進 70 公尺高的鐘塔，幾度努力都宣告失敗，只好放棄，第二天清醒回到教堂，卻發現鐘已就位，因而相信天使幫了大忙。

拍布拉歷史區為聯合國教科文組織登列之世界遺產，走在歷史區的街道上，總能見到顏色光鮮的陶瓷裝飾，或是鑲在宅邸、教堂門牆，或是在教堂圓頂閃亮，是拍布拉非常重要的觀光資源，此乃源於西班牙殖民之影響，西班牙人將塔拉維拉（Talavera de la Reina）陶藝技藝帶進拍布拉，保留原來 Moor 及義大利（Majolica）陶瓷色彩鮮豔、紋飾繁複的本質，添加中國青白瓷的花樣、色彩，再滲入當地原住民的特色，發展出塔拉維拉陶瓷（Talavera Poblana）。為了確保塔拉維拉陶瓷的品質，西元 1998 年塔拉維拉監督委員會設立（Consejo Regulador de Talavera），訂定塔拉維拉陶瓷標準。基本上必須採取拍布拉地區的黏土，以手工製胚，使用的 6 種顏色藍、綠、紅、黃、棕、黑顏料都必須由天然礦物質研製，使用驢毛筆手工描圖上色，兩度以規定溫度燒製。拍布拉地區通過產品檢驗的工廠，才能獲得委員會認證，經過認證的廠家應在每件產品上標示廠商代號，目前符合標準的廠商據稱不到 20 家。我國新北市鶯歌區之陶瓷也是國外旅人來台觀光必去必買的伴手禮之一，但鶯歌老街上陶藝品充斥，有些為當地手工拉坯及燒製，有些為工廠大量生產，有些甚至為中國大陸工廠所產製，品質及價格混亂，有時連我國旅人都無法辨識，更何況是外國人，如果我國繼續放任賺錢不擇手段的商人以劣質陶藝品換取金錢，將會如同塑化劑事件一般再度破壞我國 MIT（Made In Taiwan）產品之國際形象！我國政府應該參考墨西哥經驗，輔導鶯歌當地陶藝家及業者共同成立類似「塔拉維拉監督委員會」之單位，訂定鶯歌陶瓷標準，推動認證制度，提升鶯歌陶瓷之品質，進而重塑國際形象。

肆、活動地點及內容

第 31 屆「國際影響評估協會 (International Association for Impact Assessment, IAIA) 年會」於 2011 年 5 月底至 6 月初在墨西哥拍布拉會議中心 (Puebla Convention Center) 舉行。本次會議內容共有 12 場主題論壇 (Theme Forums)、91 場分項座談會 (Concurrent Sessions)、451 以上論文發表 (Papers)、78 篇以上海報展示 (Posters) 及多場技術參訪 (Technical Visits) 等。大會議程詳如附錄一。

伍、參加人員

此次參加人員包含地主國墨西哥、英國、美國、挪威、阿根廷、奈及利亞、衣索比亞、伊朗、巴西、迦納、玻利維亞、南非、紐西蘭、荷蘭、加拿大、瑞典、瑞士、澳洲、義大利、西班牙、葡萄牙、芬蘭、日本、中國、韓國、泰國及菲律賓……等近百個國家代表參加，共約 600 餘人。而我國僅本署派 2 人參加。

陸、IAIA 2011 年會概要

一、本次會議主題：

本次會議主題為「影響評估及負責任之基礎設施、商業和工業發展 (Impact Assessment and Responsible Development for Infrastructure, Business and Industry)」，藉由多篇主題演講及座談，探討及分享影響評估 (Impact Assessment)

如何與經濟、商業政策結合，進而整合至決策過程之研究與經驗，期透過預先評估發展政策及計畫來預防及減輕其不利影響，成就負責任之基礎設施、商業和工業發展，進而達到保護環境、提昇人類健康及福祉之目的。

二、主題論壇 (Theme Forums)：

本次主題論壇之內容係由本次會議主題「Impact Assessment and Responsible Development for Infrastructure, Business and Industry」延伸而來，包含生物多樣性、公司/團體的職責及風險管理、環境影響評估系統及規章、影響評估在決策過程之影響、健康、石油、天然氣及負責任之發展、社會影響評估、政策環境影響評估……等主題。並透過論文發表及小組討論方式，交換看法及進行經驗交流。會議鼓勵企業及經濟部門決策者將環境、社會及健康等多面向之影響評估，整合至決策過程中，發展負責任之基礎設施、商業和工業活動，以達提昇人類福祉之終極目標。

三、分項座談會 (Concurrent Sessions)：

本次會議論文發表相當踴躍，約有 451 篇以上，因此大會安排同時間不同場次之分項座談會，主要議題除上述之大會主題及論壇外，尚包含農業/林業/漁業之政策環境影響評估、氣候變遷對農業/林業/漁業之影響、建築涵容能力、氣候變遷之減輕及適應、文化遺產、能源、拉丁美洲及加勒比海之環境政策與管理、影響評估之基本原則、環境影響評估及政策環境影響評估、石油與發展、公眾參與……等。

四、技術參訪 (Technical Visits) :

本次會議安排了許多參訪行程，包含參訪提瓦坎 (Tehuacán) -聖胡安包蒂斯塔 (Cuicatlán) 生物圈保護區及水博物館、非洲野生動物園/野生動物自然保護公園、迪奧狄華肯 (Teotihuacan)、喬盧拉 (Cholula) & 拍布拉 (Puebla) ……等，並由主辦單位人員帶領參觀及解說，囿於經費及天數所限，本署僅參加「迪奧狄華肯 (Teotihuacan)」之行程。

迪奧狄華肯 (Teotihuacan) 位於墨西哥市東北方約 48 公里處，大約在西元前 200 年，迪奧狄華肯零星分布著小村落，居民靠著山丘蘊藏的泉水耕作，開發周圍富藏的黑曜石製作工具。100 多年後，村民在如今日金字塔 (Piramide del Sol) 所在地發現地下洞穴；洞穴對墨西哥原住民而言像母親的子宮，他們相信所有的生命，甚至日、月都源自神聖的洞穴。當地居民以洞穴為中心開始興建祭神的金字塔和神殿，發展統治者、祭司和平民居住的社區，更以掌握的黑曜石加強對外貿易，逐漸擴張成墨西哥高原上的大都會。14 世紀初阿茲特克人遷入墨西哥高原建立帝國前，迪奧狄華肯已成廢墟，沒有語言流傳，也沒有文字記載廢墟的故事，阿茲特克人仰望 2 座金字塔，直覺應出自巨人手筆，隨後更與本身信仰及宇宙觀結合，將廢墟命名迪奧狄華肯，意即「眾神居所 (the place where men become gods)」。

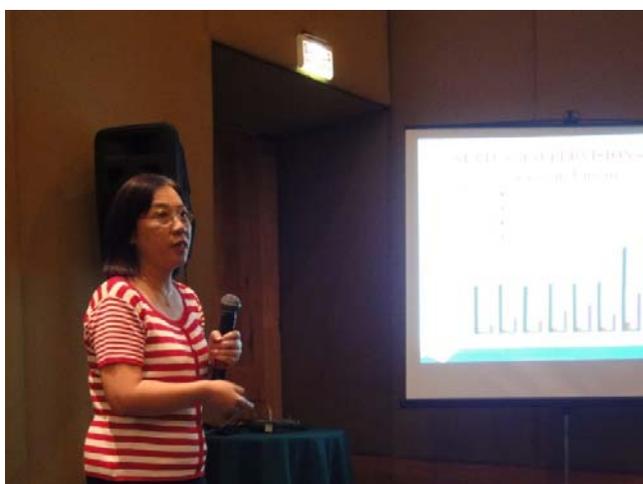
西元 1884 年經營古物買賣的里奧波度巴德雷 (Leopoldo Batres) 聽說金字塔埋藏金沙、寶物，即要求擔任總統的親戚狄亞士 (Porfiro Diaz)，指派他掌管墨西哥古蹟保護及調查，並以公帑進行考古挖掘，挖掘後才發現迪奧狄華肯是祭祀中心，其以死亡大道 (Calzada de los Muertos) 為南北軸線，連同「城堡」前的東、西通道，將迪奧狄華肯分成四個部份，其中有宗教用途的金字塔和神殿，有祭司、工匠及百姓的住宅，還有公共集會與交易的大市場，分佈細密的運河、

水道是農業灌溉及居民生活泉源。根據挖掘推斷，迪奧狄華肯起源於西元前 150 年，由蘊藏泉水的山腳建築月金字塔（Piramide de la Luna）起，逐漸向南移，日金字塔、城堡和羽蛇神殿（Templo de Quetzalcoatl）大約於西元 200 年完工，往後 300 年間，城堡成爲地理、政治和宗教中心，大約在西元 600 年前後的全盛期，迪奧狄華肯佔地 20 平方公里，住宅建築逾 2,000 處，估計容納 12.5~20 萬人口，成爲世界上僅次於君士坦丁堡、長安、洛陽及埃及亞歷山卓港的大都會。住宅區居民除了以血緣、姻親、鄉親及工匠聚居，同時存在來自南方瓦哈卡（Oaxaca）及墨西哥灣邊維拉克魯茲（Veracruz）的外來居民區。西元 750 年左右，迪奧狄華肯居民突然消失，公共建築留下的火燒痕跡，讓人猜測是遭火劫，但至今滅城說法仍不一，究竟是天災，還是人禍？仍是千百年來未解的謎題。

這次參訪行程讓人有很深地感觸，曾經盛極一時的古埃及文明、吳哥王朝及馬雅文明，都曾經留下令世人及現代科學讚嘆或不解的史蹟（如埃及金字塔、吳哥窟及馬雅金字塔…等），但仍無法避免邁向衰敗或消失之途，古埃及因奴隸起義導致國力衰竭，終不敵波斯人而遭佔領；吳哥王朝因無法因應氣候變遷與其衝擊（如：農作減收、用水需求增加），再加上一些人爲的政策與建設，終至滅亡；馬雅文明則可能因疏於防範而遭火劫而消失了。可見縱使國力強大、科學或工程發展一流，在政府政策、基礎建設、經濟活動及開發行爲…等實行前未充分考量社會、經濟、環境、健康及文化…等諸多面向可能帶來之影響與衝擊，並加以因應，仍將無法避免邁向失敗之路，鑑古知今，在全球氣候急劇變遷，整體環境亦隨之改變的當下，如何將影響評估（Impact Assessment）整合至決策過程中，透過預先評估來預防及減輕不利影響已成爲當前重要之議題。

五、本署代表之論文發表內容：

本署代表於今年初以「我國環境影響評估承諾執行之經驗（Discuss the implement of EIA promises from the developers in Taiwan）」為題，向大會投稿，經大會認可接受，安排於6月2日上午進行發表，論文摘要及簡報投影片內容如附錄三。論文發表結束後，有5人提問，會後有2~3人與本署進行意見交換，對於我國環境影響評估承諾執行之經驗深感興趣，並交流相關想法，獲益甚多。



本署代表論文發表情形



意見交換情形

六、會議參與情形摘述：

有鑑於國內國光石化開發案環境影響評估審查之爭議不斷，該開發案和以往案件爭議較不同的地方在於溼地生態、全球氣候變遷及填海造地開發方面，故本次會議本署代表參與之主題論壇及分項座談會側重在生物多樣性及海岸地區影響評估二方面議題上，並進行內容摘述如下，其餘內容詳見附錄一。

(一) 生物多樣性部分有二篇報告比較特別，摘述重點如下：

來自瑞士的永續發展世界商業理事會（World Business Council for Sustainable Development）計畫協理 Violaine Berger 發表「Corporate ecosystem valuation: The business case」：生物多樣性和生態系統服務這類的自然資產，將會對未來的經濟成長與榮景扮演重要的角色，所以本篇文章希望透過發展「企業生態系統評估（Corporate Ecosystem Valuation, CEV）」手冊，讓企業進一步將生態系統評估（ecosystem valuation）納入決策過程中，以量化生態系統服務（valuing ecosystem services）幫助企業更精確地評估與生態系相關之風險與機會。文中提到有效的管制措施能提供一個框架，確保自然資本可以被永續利用，並成爲其他政策之基礎。但管制措施不限於稅賦與罰款這些市場性工具，也可以是改變經濟之誘因，讓私部門改變行爲，以確保生物多樣性與生態系統服務帶來之利益。爲了刺激生態系統評估服務的供給，獎勵那些管理與維護這些服務供給的個人與社群是很重要的，且對適當的目標自然資本進行投資，也能帶來高投資報酬率的回饋，例如：復育已破壞之地區，將能幫助我們維護原住民的經濟生活，並讓他們繼續維持生計。

來自英國的環境規劃署世界保護監測中心（The UNEP World Conservation Monitoring Centre）資深計畫員 Matt Jones 發表「Finance:

Mechanisms for safeguarding biodiversity」：本篇研究回顧 8 個部門的 36 個標準及認證計畫（12 個農業標準、2 個生物貿易標準、3 個碳標準、5 個金融標準、5 個漁業標準、4 個林業標準、2 個礦業標準及 3 個觀光標準）在生物多樣性的保護上，如何將生物多樣性納入考量或要求，並分析其共通性及相異點。其共通性為（1）棲地（Habitat）及物種（Species）是最常被考慮的因素；（2）不同部門考慮之因素類似；相異點是考慮因素雖類似，但採用之方法卻不同。另回顧結果發現：在金融標準及認證計畫裡，保護區之優先性是唯一的缺口，未來之發展趨勢將包含更細微的要求，例如：更廣的議題、要求能被限縮、減輕等級的最佳實例、採用精確且國際化之定義…等。研究的結論為：標準不是憑空想像的，標準及認證計畫仍是明確要求生物多樣性的重要方式，各標準及認證計畫主要聚焦在「輔助相容性（aid compatibility）」及「採取之行動（take-up）」上，可預期的是標準及認證計畫仍將遵循著一般性軌跡發展。

（二）海岸地區影響評估部分摘述重點如下：

來自葡萄牙NEMUS公司的Pedro Bettencourt博士是海岸地區影響評估議題的主持人之一，其認為氣候變遷將是影響全球海岸線重塑的重要因素，在此議題之主題論壇及分項座談會開始前，即以「**Climate change and risk assessment in coastal areas**」為題揭開序幕：全球氣候變遷不僅導致海岸地區海平面上升，也使得暴雨頻率及強度增加，所以海岸地區的風險評估工作將益顯重要。由法羅海灣（Faro Beach）都市計畫的風險評估研究看來，風險評估主要係納入（1）暴雨過後沙丘的瞬間撤退，（2）受過度沖刷的侵蝕及洪水區，（3）瀉湖礁之氾濫作用等三種力學機轉及過程，評估資料為好幾場活動收集而來，較新且地理區位

相近的論文和報告。Pedro Bettencourt博士認為透過上開風險評估過程，可以提出一些建議，將極端暴雨產生之影響降到最低，例如透過一些波浪的數值模擬來評估要在潟湖及海岸邊緣的哪裡建造多大的新生地，來保護 20~50 年極端暴雨可能造成之海岸侵淤影響。

有些研究還結合了地理資訊系統（Geographic information system，GIS）來展現各種海平面上升情境可能對城市發展、人口、經濟活動、農業活動及濕地等造成之影響，並試圖量化這些影響，但展現各項目評估結果時卻發現某些評估結果會重疊在一起，應進一步透過政策環境影響評估（Strategic Environmental Assessment，SEA）加以整合。有些論文則是介紹 LIDAR（light detection and ranging）、數位航空攝影及 GIS 等新技術在海岸環境影響評估之應用。

柒、心得及建議

一、 分享臺灣經驗，強化國際交流合作，提升我國環保形象：

在環境影響評估領域中，國際影響評估協會（IAIA）年會為國際間最具規模之大型國際研討會，其每年皆廣邀各國人士進行專題演講、發表論文及經驗分享，每年皆有近百國、500 人以上參與，為環境影響評估國際交流與學術研討之重要平台。雖然該年會今年參與之人員仍以歐美人士占大多數，但依本署歷年參與之經驗，亞洲鄰近國家近年來之參與度日趨積極與活躍，如：此次香港特別行政區參加人員除了專家學者外，尚包含香港鐵路有限公司及環境顧問公司人員，其積極透過各分項座談會分享成功之環境影響評估經驗，並藉此宣揚環境保護績

效。

我國自西元 1994 年公布環境影響評估法至今，環境影響評估制度已實行近 17 年，規範各種開發行為，在規劃階段應同時考量環境因素，無論是落實環境影響評估承諾及審查結論、標準化環境影響評估審查流程、多元化公眾參與管道、推動政策環境影響評估…等皆有相當之成果，上述成果僅透過本署代表每年於會場中分享經驗似乎稍嫌薄弱，如能透過開發單位及環境顧問業等，以專題演講、發表論文或海報展示等方式，多元展現我國經驗於國際影響評估協會 (IAIA) 年會上，相信將可吸引更多國際人士進一步認識及瞭解我國環境影響評估制度與環境保護之努力，對於我國政績之宣揚極有助益。因此，建議於未來環境影響評估業者評鑑中加入「參與國際影響評估協會 (IAIA) 年會等國際知名會議」之評分或加分項目，鼓勵環境顧問業者積極參與國際影響評估協會 (IAIA) 年會；或於捷運興建工程、鐵路興建或改建工程、道路興建或改善工程、園區開發及水利工程開發…等重大開發案環評審查時，要求開發單位於國際影響評估協會 (IAIA) 年會等國際知名會議中分享環境影響評估經驗。適度擴大參與情況，強化國際交流合作，提升我國環保形象。

二、 與世界接軌，一同倡議生態系暨生物多樣性經濟：

聆聽多場生物多樣性的主題論壇及分項座談會後發現，由於生態系統服務與生物多樣性中市場價格的缺乏，使得人們從商品中獲得利益時（通常是自然資源等公共財），常常忽略或低估這類自然資源的價值，而導致生物多樣性的流失，並影響人類自身，且這些損失往往都是巨大而難以估計的，例如，僅僅熱帶雨林生態系統的消失，就製造了高達五分之一的全球溫室效應碳排放量，這樣的損失還沒將對氣候之影響計算在內；其他珍貴生態系統的消失，則直接影響人類的食

物、乾淨飲水和能源安全，這些都可能在未來幾年中，逐漸成爲影響各國的全球性議題。

在我們日常的經濟活動與各項決策中，很少將自然資本視爲需要考慮的因素。森林、土壤、濕地與珊瑚礁的持續流失就是受到這種「經濟隱形」現象的影響，而導致物種和生產性資產（如漁場）消失的部分原因，也和我們忽視這些不具立即性和私有性的價值有關。土壤、空氣、水和生態資源的惡化，將會對公共衛生、糧食安全及市場商機…等帶來不利的影響，而仰賴自然資源生活的經濟弱勢族群通常也是受害最深的一群。在這種情況下，強而有力的公共政策就變得相當重要，政策方案如何兼顧社會公平與經濟效率，並達到影響生態的效果，是世界各國正在努力之目標。

我國在民國 101 年後，有關環境保護、水利、礦業、地質、國家公園、森林保育、氣象、水土保持及生態保育…等事務將整併成環境資源部，身爲地球的一份子，臺灣更須因應世界潮流，一同倡議生態系暨生物多樣性經濟，於政府決策時瞭解自然資本之價值，並將其整合至政策制定中，進而提出有效而公平之對策。

附錄一：大會議程



Impact Assessment and Responsible Development

for Infrastructure, Business and Industry

Final program

31st Annual Meeting of the International Association for Impact Assessment

29 May - 4 June 2011

Puebla Convention Center (Centro de Convenciones Puebla)

Puebla, México



Table of contents

Special activities & events.....	1
Welcome to IAIA11	4
Conference theme	5
Conference overview	6
Daily schedule	8
Technical program overview	10
Keynote speakers	4
Technical program	12
Posters	41
Technical visits.....	44
Special meetings	46
Section information.....	40
Exhibitors.....	47
IAIA business.....	48
General information.....	49
Committees.....	51

IAIA11 at-a-Glance

Sunday, 29 May

Training courses All day
Technical visits All day

Monday, 30 May

Training courses All day
Technical visits..... All day
Special meetings All day

Tuesday, 31 May

Plenary, forums, sessions..... All day
Poster session Afternoon
Welcome reception Evening

Wednesday, 1 June

Plenary, forums, session, AGM..... All day
Social and networking event..... Evening

Thursday, 2 June

Plenary, forums, sessions, Council meeting.... All day
Social & networking events..... Morning, Evening
Banquet..... Evening

Friday, 3 June

Sessions, closing Morning
Special meeting Afternoon

Saturday, 4 June

Technical visits..... All day

Welcome reception ❁

IAIA11 will open with a reception. This event is traditionally a highlight of the conference, and the IAIA11 opening reception promises to be something very special! Meet up with old friends, make some new ones, and get your conference off to a great start.

Tuesday, 31 May
18:00-19:30 | Convention Center
Pre-registration by 11 May required.

Training courses ❁

IAIA11 offers a wide range of exceptional pre-meeting training courses, with several one- or two-day options on 29-30 May. Note: Registration after 31 March is subject to availability, instructor consent, and receipt of payment. In consideration of the trainers and their need to prepare appropriate quantities of course materials, registrants may not change courses after 11 May.

Poster session and exhibits ❁

Every conference features exhibitors and an increasingly sophisticated presentation of posters. IAIA11 will not disappoint. Browse the exhibits at your leisure throughout the conference, meet the poster presenters at the special poster session, and cast your vote for Best Poster (Public Choice).

Tuesday, 31 May | 12:40-13:30

Indaba ❁

IAIA provides space for impromptu discussions and “pop-up” topics in unanticipated/ unscheduled areas of interest, or to carry on a discussion begun during a session.

“Indaba,” or open space, sessions, from a concept first introduced at IAIA95 in South Africa, will be held at the end of the day on Wednesday and Thursday, with the opportunity to “schedule” your topic throughout the day. The informality and spontaneity guarantee a lively end to each day’s sessions.

To participate, write the topic you would like to discuss on the sign-up sheets in the registration area, or add your name to a discussion topic already posted. In the late afternoon, a program committee member will assign rooms to selected topics. Selection is based on popularity of the topic and available rooms.

Buffet of Ideas ❁

IAIA11 offers a simple methodology for hosting conversation about issues of interest and concern called “Buffet of Ideas.”

Buffet of Ideas is an informal, unchaired networking session that provides participants the opportunity to meet people they might not otherwise get to know in regular sessions and to create their own mini-workshops in small groups over lunch on Tuesday, 31 May.

The idea is to build, link and cross-pollinate ideas and discover new insights into issues important in your work. It is also for participants to share ideas on topics of interest and connect with colleagues with similar interests. Topics will be displayed on a number of tables; select the topic you would like to discuss with colleagues and feast on the discussion!

Dine-Outs ❁

The tradition of dine-outs is back for IAIA11! Share an evening sampling some of the superb Mexican cuisine at a “pay your own way” dinner. Organizing committee members have that all-important local knowledge about where the best food and the best dining experiences can be found in Puebla, and they are ready to take you to experience it!

To join, sign up on the forms posted in the registration area. Dine-outs are a great opportunity to meet new people and see some different parts of the city of Puebla.

Wednesday, 1 June | 19:30 onward

Committees and Sections ❁

Much of the cutting-edge work of IAIA is the direct result of Committee and Section activity, and the only chance for members to meet throughout the year is at the annual conference.

Everyone is welcome to attend a Section meeting. Check the schedule on page 8 for meeting times and plan to attend the Section meeting of your choice. Section meetings are scheduled multiple times throughout the conference, so there is opportunity to attend more than one topic area.

Committee members are appointed annually. If you are interested in serving on an IAIA Committee, please contact info@iaia.org.

Special activities and events

Annual General Meeting (AGM) ✨

This is the annual business meeting of the Association. All conference participants are encouraged to attend. You will meet the IAIA Board of Directors and hear reports from IAIA Committee chairs and the treasurer. The prestigious IAIA Rose-Hulman Award is also presented at the AGM.

Wednesday, 1 June | 12:40-13:30
Auditorium

Council meeting ✨

The IAIA Council serves as an advisory resource to the IAIA Board of Directors. The Council is composed of the Board, all Committee chairs, representatives of Affiliates and Branches, the CEO and Headquarters representatives, Section coordinators, and the conference program chairs for the current-year conference and any future known conferences. However, Council meetings are open; all IAIA members are encouraged to attend.

Thursday, 2 June | 12:40-13:30
La Pastora

Affiliates forum ✨

A special session is dedicated to the activity of IAIA's Affiliates, Branches and Associated Organizations. Scheduled as a concurrent session, this session is open to all conference participants and replaces the traditional Affiliates Committee meeting.

Representatives will participate from Ireland & UK Branch, IAIA-Italia, Association québécoise pour l'évaluation d'impacts (AQEI), South Africa (IAIASa), Western and Northern Canada (IAIA-WNC), Mozambique, Korea, Zambia, Nigeria, Germany, IAIA-Spain, and New Zealand Association for Impact Assessment (NZAIA). See page 39 for a description of the discussion.

Posters are also being displayed by these groups. Stop by during the poster session to visit with representatives of the Affiliates and learn more about their organizations and activities.

IConnect: Do you? ✨

Join us if you would like to learn more about IAIA's professional networking site and how it can benefit you. Bring your questions, and we will walk through online discussions, sharing resources, and finding other members with similar interests. We can even take your photo and upload it to your profile!

Tuesday, 31 May | 16:30-18:00 | Alto A
Friday, 3 June | 09:00-10:30 | Esperanza

Technical visits ✨

See page 44 for the variety of technical visit options. Technical visits provide multiple opportunities to participate, network, and enhance your understanding of impact assessment issues in the region.

Registrations are accepted on a first-come, first-served basis until the visits reach the maximum number of participants. Registrations are confirmed in the order that payment is received, and pre-registration is required.

Student fee waiver program ✨

IAIA is pleased to offer a student fee waiver program. This program, initiated at IAIA'04, allows up to ten students a waived conference registration fee in exchange for providing in-kind services on-site in Puebla. Selection of students took place in February.

Student Fee Waiver Program Orientation

Monday, 30 May | 08:15-08:45
Meet at registration desk

Students & early professionals ✨

All students are invited to attend the Students and Early Professionals Section meeting (see page 8 for the Section meeting schedule and location).

Fun Run ✨

This popular 5km Fun Run/Walk is back due to popular demand! A great way to start the day and network with fellow runners. The route will refresh your mind and body and offer a chance to meet people you might not otherwise meet during formal sessions. Everyone is welcome: runners, walkers, spectators, and volunteers. Pre-registration and a nominal fee is required from runners/walkers to cover prizes. To volunteer to assist with the run or for more information, please contact Eduardo Vadillo (eduva_enlace@terra.com.mx).

Thursday, 2 June | 06:45-08:15
Pre-registration and nominal fee (\$5) are required.
Meet at the Convention Center.

Mentor/Buddy program ✨

The intent of this program is to help students and early professionals (SEPs) and first-time conference attendees feel more comfortable and less overwhelmed with their first IAIA conference experience.

The mentor is an experienced IAIA member with the same interest area as the applicant (wherever possible). The mentor acts as a discussion partner on common topics of interest for the professional development. Mentees do not shadow mentors, but rather meet at the conference to begin conversation that extends beyond the conference.

Matching of mentors and mentees took place prior to the conference.

If you would like to be a mentor or mentee at a future conference, e-mail bridget@iaia.org or notify staff at the registration desk.

Mentor/Buddy Orientation

Monday, 30 May | 17:10-17:40
Meet at registration desk

Book share ✨

Bring one or two of your favorite environmental reference books, new or recycled, as a contribution to the book share table. The books are available on a first-come, first-served basis to delegates who might not readily find such books in their own locales.

Banquet ✨

Join colleagues old and new to exchange experiences and reflect on IAIA11.

Thursday, 2 June | 20:00-23:00
Convention Center
Pre-registration by 11 May required.

Awards ✨

IAIA's awards are presented throughout the conference. Who will win the honors associated with the annual awards? Be sure to find the awards flyer in your delegate pack with information on making award nominations for 2012.



Welcome / Keynote speakers

LUIS E. MONTAÑEZ CARTAXO PROGRAM CHAIR



It is my honor and privilege to welcome you to the IAIA11 Conference in Puebla, Mexico. For the 31st consecutive year, impact assessment experts from all over the world gather to exchange experiences and learn from each other ways to conduct local, regional and global actions to promote the

responsible development of infrastructure, business and industry.

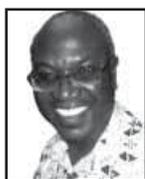
Enjoy the warmth of a small venue that will give us the opportunity to be in the company of colleagues whom we usually contact only by electronic means. We will also have the chance to meet other persons from many different countries who will impress and surprise us through technical and social interaction.

Thanks to the enthusiastic participation of so many people, the complete Conference technical program has become a very interesting one, including the training courses, technical/cultural visits and various special sessions and meetings. I hope that, as is common in the IAIA conferences, each of us will take home a positive experience of the meeting, in terms of both technical knowledge and personal relationships.

The city of Puebla is also known as Puebla of the Angels and you will have the chance to experience why. It is Mexico's fourth largest city, but has best preserved its colonial architecture and was chosen by UNESCO as a World Heritage site. I hope that Puebla's warm hospitality, relaxed atmosphere, delicious food, colorful surroundings, and distinct colonial history will make you want to come back soon.

Enjoy the Conference and Puebla!

JONATHAN ALLOTEY IAIA PRESIDENT



This conference provides a menu that will serve as a banquet for all kinds of tastes.

Let me remind you of the benefits of attending conferences, which include networking and making new friends. Conferences are a

time for updating our knowledge and getting to know about new ideas and the direction of professional practice.

I am looking forward to meeting you all in Puebla for a good feast from the assorted Impact Assessment menu.

Keynote speakers

PEDRO ÁLVAREZ ICAZA



Pedro Álvarez Icaza has PhD studies in agroecology, rural development and peasant organizations, and holds a MSc on rural development. His background is in agronomy and he is an EIA expert. He is currently the

Coordinator of Biological Resources and Corridors at the National Commission for the Use and Knowledge of Biodiversity in Mexico (CONABIO).

He is main counselor of the technical committee of the Fund for Natural Protected Areas, member of the Protected Areas Council, member of the external review committee of the Centre for Research in Geography and Geomatics "Ing Jorge Luis Tamayo" and alternate representative of Mexico in the Central American Commission on Environment and Development (CCAD).

Among many other posts, he has been general director of the Natural Resources and Rural Development Commission of Mexico City Environmental Secretariat, general coordinator of the Economic and Social Analyses Unit, and general director of Ecological Land Use Planning and Environmental Impact Assessment at the national Environment and Natural Resources Secretariat. Some of his outstanding contributions are related to environmental law amendments in 1996.

He has been consultant to many institutions and organizations, among others FAO, the World Bank and the National University of Mexico. In the research field, he has produced and collaborated in several studies related to social ownership of land, natural resources management, environmental issues of development, and institutional aspects of environmental management and land use planning.

His keynote speech* addresses works done by the Mexican Chapter of the Mesoamerican Biological Corridor regarding sustainable production, use of natural resources, ecological connectivity, ecotourism, green markets, ecosystems services, land use planning, climate change, and international cooperation.

** This keynote speech will take place in Spanish with Spanish-English translation.*

MIGUEL E. EQUIHUA ZAMORA



Miguel Equihua obtained his undergraduate degree in biology and at the same time studied applied statistics. He holds an MSc in biological computation from the University of York and a PhD from the same University.

He is a member of the Mexican National System of Researchers. Currently he is a researcher at the Institute of Ecology in Xalapa, Veracruz; he was its Director from 2004 to 2010.

He is the author of nine books and several chapters (7), has published 36 articles in both national and international indexed journals, and has given many courses over the past 25 years on ecology, advanced statistics, numerical biology and mathematics for biologists.

Miguel is currently involved in two lines of research: the ecology of natural communities and numerical modeling of ecological processes. His knowledge of Mexican vegetation and flora is extensive, and he is an expert on the application of geographical information systems to issues in ecology and conservation. He has been heavily involved in the development and coordination of more than 60 environmental impact assessment projects. This has resulted in several policy-defining reports on topics such as the impact of dam construction, the biodiversity of birds, and on environmental indicators. He has also analyzed environmental effects of large transmission line systems as well as the establishment and operation of power plants of various kinds (spanning from coal to wind). He coordinated an analysis of the threats to the sustainability of all the ecosystems of Mexico, with an emphasis on two of the major environmental issues in the country: habitat loss and water quality.

He is also working on a diagnosis of the environment in the state of Veracruz and on an analysis of the effects of wind power facilities on migratory birds in southern Mexico. With several other authors, he has recently contributed to the preparation of the action program on climate change for the State of Veracruz.

He has been an advisor on the board of various international commissions, including the North American Working Group for the development of regional environmental indicators (involving governmental agencies from Canada, the United States and Mexico). He is member of the editorial board of the prestigious Mexican journal *Acta Botanica Mexicana* and has acted as peer referee for both national and international journals.

His keynote speech will address the use of scientific knowledge in the environmental impact assessment process.



Impact Assessment and Responsible Development for Infrastructure, Business and Industry

For the last four decades, impact assessment has been gradually incorporated into the world as a deciding factor for the development of industrial and infrastructure projects. Likewise, in the last two decades it has been gradually integrated into the financial and business decision-making processes. Despite the penetration of impact assessment (in its various forms: EIA, SEA, SIA, HIA and others) in almost all sectors of the economy, and even though the environmental impact assessment is a legal requirement in so many countries, the environmental factor is still often the factor of less weight in decision making, in contrast with priority given to economic considerations analyzed in isolation.

But impact assessment plays a crucial role in responsible development, since it is a tool to assess comprehensively the changes in the environment and communities, health and welfare. Infrastructure and industrial projects and businesses in general (financial, commercial and others) should be conducted with a responsible development approach, beginning at the conceptual stage and finalizing at the end of the project or business life.

IAIA11 will be only the second time that IAIA holds its annual meeting in Latin America. Attendees will have the opportunity to participate in sessions of several formats in which theoretical and practical aspects of the various instruments of impact assessment (IA) will be addressed. These variations of IA are being used—or should be used—by infrastructure developers, industrialists, policies shapers, planners and public administrators, financial institutions, retailers, agencies of development cooperation and the general public.

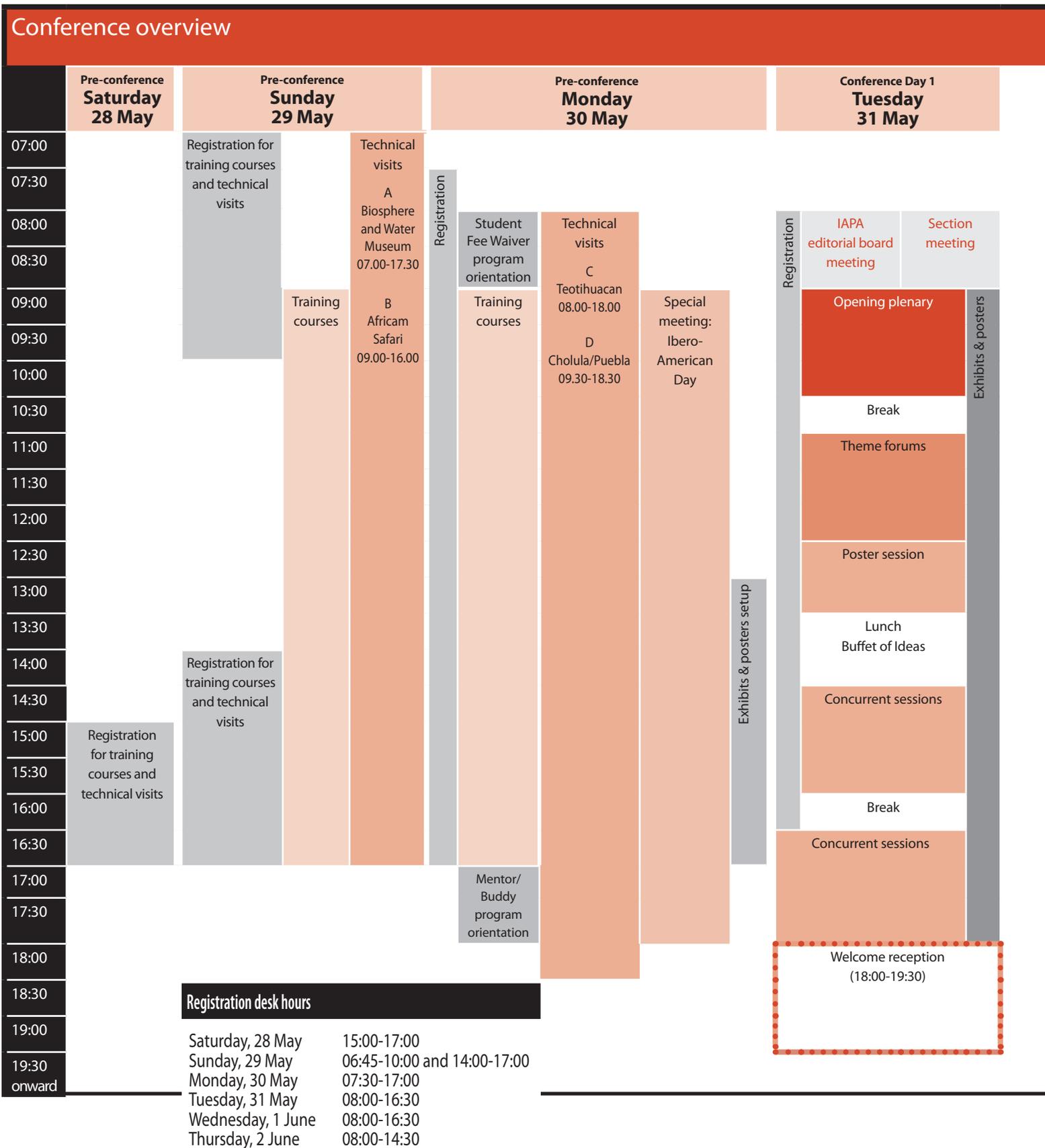
The sessions will address IA applied to energy and oil sectors, water management and coastal zone management, agriculture, forestry and fisheries, mining, production and consumption, and the health sector.

There will also be sessions devoted to the following topics in relation to IA: climate change (mitigation and adaptation), biodiversity, corporate governance and risk management, corporate social responsibility, cultural heritage, public participation, social impact assessment, and environmental practice and governance in Latin America and the Caribbean.

As for impact assessment methodologies, the following issues will be discussed: capacity building, strategic environmental assessment, impact assessment and its influence in decision-making, EIA systems and regulations, fundamentals of IA and other topics.

This Conference should contribute to a greater collective knowledge about how, using a responsible approach in planning, design, construction and operation of infrastructure projects and industries of all kinds, as well as in planning, structuring and operation of all type of businesses (including the financial sector), impact assessment can contribute to sustainable development of cities, regions, countries, and the whole world, aspiring a way to a better future.

Conference overview



Conference overview

Conference Day 2 Wednesday 1 June		Conference Day 3 Thursday 2 June		Conference Day 4 Friday 3 June		Post-conference Saturday 4 June		
		Fun Run (06:45-08:15)				Technical visits		07:00
						E Biosphere and Water Museum 07.00-17.30		07:30
Registration		Registration				F Teotihuacan 08.00-18.00		08:00
Theme forums		Theme forums		Concurrent sessions		G Cuetzalan post-conference tour departs 09:00		08:30
Exhibits & posters		Exhibits & posters		Exhibits & posters				09:00
Break		Break		Break				09:30
Concurrent sessions		Concurrent sessions		Closing plenary				10:00
AGM and Rose-Hulman Award Presentation		Council meeting						10:30
Lunch & Section rendezvous		Lunch & Section rendezvous						11:00
Concurrent sessions		Concurrent sessions		Special meeting: World Bank/IFC Workshop				11:30
Break		Break						12:00
Concurrent sessions		Concurrent sessions						12:30
Committee & Section meetings		Committee & Section meetings						13:00
Indabas		Indabas						13:30
Dine Outs (19:30 onward)		Banquet (20:00-23:00)						14:00
								14:30
								15:00
								15:30
								16:00
								16:30
								17:00
								17:30
								18:00
								18:30
								19:00
								19:30 onward

Daily schedule

Saturday, 28 May

15:00-17:00 **Registration**
Training course and technical visit participants only

Sunday, 29 May

06:45-10:00 **Registration**
Training courses and technical visits A (Biosphere and Water Museum) and B (Africam Safari)

07:00-17:30 **Technical visit A: Biosphere and Water Museum**

09:00-16:00 **Technical visit B: Africam Safari**

09:00-17:00 **Training courses**
Room numbers will be provided at check-in.

1. Practical Guide to Sustainability Assessment
2. MCA for EIA of Projects and Plans
3. Cultural Heritage IA
4. Increasing Tangibility in SEA
5. Understanding Impact Assessment
6. Biodiversity & Ecosystem Services in IA
7. Achieving the Full Potential of SIA
8. EIA Guide & Review
9. SEA for LAC Countries

14:00-17:00 **Registration**

Monday, 30 May

07:30-17:00 **Registration**

08:00-18:00 **Technical visit C: Teotihuacan**

08:15-08:45 **Student Fee Waiver Program orientation** (La Pastora)

09:30-18:30 **Technical visit D: Cholula/Puebla**

09:00-17:00 **Training courses**
Room numbers will be provided at check-in.

4. Increasing Tangibility in SEA
5. Understanding Impact Assessment
6. Biodiversity & Ecosystem Services in IA
7. Achieving the Full Potential of SIA
8. EIA Guide & Review
9. SEA for LAC Countries
10. Involuntary Resettlement
11. HIA for Extractive Industries
12. Linking Project EIA & Environmental Management

09:00-18:00 **Special meeting: Ibero-American Day** (Angelopolis auditorium)

13:00-17:00 **Section Coordinators meeting** (La Cruz)

13:00-17:00 **Exhibit and poster setup** (Balcony)

17:10-17:40 **Mentor/Buddy meeting** (Xonaca)

Tuesday, 31 May

08:00-08:50 **IAPA Editorial Board Meeting** (La Cruz)

08:00-08:50 **Section meeting**
Students and Early Professionals (La Pastora)

08:00-16:30 **Registration**

09:00-10:30 **Opening plenary** (Analco)
Chair: Luis E. Montañez Cartaxo, IAIA11 Program Committee Chair
Pedro Álvarez Icaza, CONABIO (keynote speaker)
Miguel E. Equihua Zamora, Instituto de Ecología, A.C. (keynote speaker)
Jonathan Allotey (statement by IAIA President)

10:30-11:00 **Break**

11:00-12:30 **Theme forums**

12:40-13:30 **Poster session**

13:30-14:20 **Lunch**
Buffet of Ideas: See table topics

14:30-16:00 **Concurrent sessions**

16:00-16:30 **Break**

16:30-18:00 **Concurrent sessions**

18:00-19:30 **Welcome reception** (*pre-registration required*) (Convention Center)

Wednesday, 1 June

08:00-16:30 **Registration**

09:00-10:30 **Theme forums**

10:30-11:00 **Break**

11:00-12:30 **Concurrent sessions**

12:40-13:30 **Annual General Meeting and Rose-Hulman Award Presentation** (Auditorium)
The AGM is the annual business meeting of the Association. All members are encouraged to attend.

13:30-14:20 **Lunch**
Sections: See reserved tables

14:30-16:00 **Concurrent sessions**

16:00-16:30 **Break**

16:30-18:00 **Concurrent sessions**

18:10-19:20 **Indaba** (see flip charts in registration area for topics and locations)

18:10-19:20 **Committee meetings**
Publications (La Cruz)

18:10-19:20 **Section meetings**
Biodiversity & Ecology (Oriental I)
Disasters & Conflicts (Oriental II)
Health (Violeta I)
Indigenous Peoples (Violeta II)
IA of Trade-Related Policies (Esperanza)
Energy (Luz A)
Public Participation (Luz B)

19:30 onward **Dine-Outs** (see signup sheets in registration area)

Thursday, 2 June

06:45-08:15	Fun Run (meet at Convention Center)
08:00-14:30	Registration
09:00-10:30	Theme forums
10:30-11:00	Break
09:00-10:30	Theme forums
11:00-12:30	Concurrent sessions
12:40-13:30	Council meeting (La Pastora) The Council is an advisory resource for the Board. Committee chairs, Section coordinators, Affiliate and Branch representatives and conference program chairs for current and future conferences comprise the Council. All members are encouraged to attend.
13:30-14:20	Lunch <i>Sections: See reserved tables</i>
14:30-16:00	Concurrent sessions
16:00-16:30	Break
16:30-18:00	Concurrent sessions
18:10-19:20	Indaba (See flip charts in registration area for information)
18:10-19:20	Committee meetings Awards (La Cruz) Sections Coordinating (Xonaca) Training & Professional Development (Constancia)
18:10-19:20	Section meetings Agriculture, Forestry & Fisheries (Violeta I) Corporate Stewardship & Risk Management (Violeta II) Cultural Heritage (Oriental I) Environmental Law, Policies & Practice (Oriental II) Social Impact Assessment (Esperanza) Strategic Environmental Assessment (Luz A)
20:00-23:00	Banquet (<i>pre-registration required</i>) (Convention Center)

Friday, 3 June

09:00-10:30	Concurrent sessions
10:30-11:00	Break
11:00-12:30	Closing Plenary (Analco) <i>Chair: Luis E. Montañez Cartaxo, IAIA11 Program Committee Chair</i> Main conclusions and recommendations of IAIA11 Presentation of Awards. Anne Miller, 2011 IAIA Awards Committee Presidential Address. Stephen Lintner, Incoming President of IAIA Invitation to Prague SEA 2011. Barry Sadler, Jiri Dusik, Program Co-Chairs Invitation to IAIA12. Miguel Coutinho, IAIA12 Program Chair Closing of IAIA11
13:00-17:00	Special meeting: World Bank/IFC Workshop (Auditorium)
13:30-16:00	Exhibit and poster dismantle

Saturday, 4 June

07:00-17:30	Technical visit E: Biosphere and Water Museum
08:00-18:00	Technical visit F: Teotihuacan
09:00	Cuetzalan post-conference tour departs

Note: English is the primary language used at IAIA conferences. However, both plenaries, the theme forums, and the Ibero-American Day will have English-Spanish translation. The keynote address by Pedro Álvarez Icaza will be translated from Spanish to English.

Technical program: Topical streams

Agriculture, forestry and fisheries.....	16
Biodiversity.....	12, 17
Capacity building.....	19
Climate change mitigation and adaptation.....	19
Corporate stewardship and risk management.....	12, 20
Cultural heritage.....	21
EIA systems and regulations.....	13, 22
Energy.....	23
Environmental practice & governance in Latin America and the Caribbean.....	24
Foundations of impact assessment.....	25
General aspects of EIA & SEA.....	25
General topics.....	37

Health.....	14, 27
IA and its influence in decision making.....	13, 27
Oil and development.....	29
Oil and gas and responsible development.....	14
Other topics.....	15, 38
Public participation.....	30
Social impact assessment.....	15, 32
Special to IAIA.....	39
Strategic environmental assessment.....	15, 34
Transportation.....	36
Water and coastal zone management.....	36



Technical program overview

	Auditorium	Esperanza	Oriental I	Oriental II	Violeta I	Violeta II
Tuesday 09:00-10:30						
Tuesday 11:00-12:30	Countries joining forces: learning from regional approaches to EIA capacity development		What constitutes responsible development in the extractive industry?		HIA in developing country settings: From theory into practice	
Tuesday 14:30-16:00	SEA and climate change I	Community perceptions of mining and local governance	Corporate social responsibility (CSR) development and environmental footprints	Early experiences of SEA in the oil and gas sector	Climate change in the coastal zone: EIA, SEA, mitigation and adaptation I	Developing an integrated biodiversity impact assessment methodology
Tuesday 16:30-18:00		Coaching and mentoring	Gender impact assessment	General aspects of EIA & SEA I	Climate change in the coastal zone: EIA, SEA, mitigation and adaptation II	Local governance and sharing of mining benefits
Wednesday 09:00-10:30	Oil, gas & responsible development		Social and environmental sustainability in private sector finance		Agreements between companies and communities	
Wednesday 11:00-12:30	Biodiversity: Bringing business on board	SEA and public participation I	Sustaining public participation over time	Agreements between companies and communities	Modeling biodiversity strengthens SEA and land use planning	EIA mapping workshop
Wednesday 14:30-16:00	Spanish-speaking IA network meeting	SEA and public participation II	Public participation: Value, conflict and politics I	SEA & sustainable water and coastal management I	Environmental and socio-economic assessment and management	Influence of governance on effectiveness I
Wednesday 16:30-18:00	How can we make the oil and gas industry environmentally responsible?	Using SIA to restore and enhance livelihoods	Public participation: value, conflict and politics II	SEA & sustainable water and coastal management II	General aspects of EIA & SEA II	Influence of governance on effectiveness II
Thursday 09:00-10:30	Ecosystem services for sustainable socioeconomic development		Perspectives on partnerships for responsible project delivery		HIA in 21 st century: Time for a new consensus	
Thursday 11:00-12:30	Safeguarding healthy rivers and environmental flows	A visit to the orphanage of IA	IA and partnerships for local development	Overview of recent SEA development in LA I	Public participation and EA follow-up	EIA legislation: development, amendment, review
Thursday 14:30-16:00	Biodiversity offsets: Financial institutions and business on the same page?	Foundations of impact assessment	Transboundary EIA: Latin American approach	Overview of recent SEA development in Latin America II	Social media and public participation in IA	Oil and gas development: Role playing I
Thursday 16:30-18:00	Ecosystem services in EIA: A practical guide	IAIA Affiliates forum	Research for policy impact assessment	General aspects of EIA & SEA IV	Governance determines environmental practices	Oil and gas development: Role playing II
Friday 09:00-10:30	Strategic approaches to mine development	IConnect: Do You?	SEA for agriculture and AFF certification	General aspects of EIA & SEA V	General topics I	General topics II
Friday 11:00-12:30						

Technical program overview

	Constancia	Luz A	Luz B	Alto A	Alto B	Analco		
							Opening plenary	Tuesday 09:00-10:30
Power of peer pressure & tools for benchmarking								Tuesday 11:00-12:30
Power of peer pressure: Tools for benchmarking IA systems	EIA success cases I	Climate change and its effect on AFF	Submitting papers to IAPA: An interactive workshop	Health in impact assessment				Tuesday 14:30-16:00
SEA and climate change II	EIA success cases II	Environmental risks and AFF with emphasis on fisheries	IConnect: Do You?	Human rights impact assessment				Tuesday 16:30-18:00
Does impact assessment lead to responsible development?								Wednesday 09:00-10:30
Improved access to biodiversity data for and from EIAs using GBIF	Development-induced displacement and resettlement	Country experiences with oil industries and the environment	Mexican perspectives on sustainable infrastructure	SIA in mining, oil and gas				Wednesday 11:00-12:30
State of the art of sustainability assessment I	Recent SEA legal framework in Latin America I	From biodiversity to ecosystem services: Changing face of EIA	Latin American focus on responsible development	Considering community participation & land use issues, renewable energy				Wednesday 14:30-16:00
State of the art of sustainability assessment II	Recent SEA legal framework in Latin America II	EIA and transmission lines siting	Cities and city regions: health, environment, society and sustainability	IA in the transport sector				Wednesday 16:30-18:00
Maximizing SEA influence for poverty reduction								Thursday 09:00-10:30
Environment and SIA as if management matters		Sustainable practices applicable to renewable energy		Asian SEA, EIA and sustainability assessment I				Thursday 11:00-12:30
Climate change and IA guidance: Available guidance for practitioners	Agriculture planning and environmental sustainability	Cultural heritage in IA: Benefits and good practice I	General aspects of EIA & SEA III	Asian SEA, EIA and sustainability assessment II				Thursday 14:30-16:00
Developing the international guidelines for SIA	Environmental compliance theory and practice	Cultural heritage in IA: Benefits and good practice II	Climate change inclusive SEA & EIA	Perspectives on development impact				Thursday 16:30-18:00
Resilience thinking in SEA: A follow-up discussion	Stakeholder networks and IA	EIA and hydropower: Practical cases for sustainability		General topics III				Friday 09:00-10:30
							Closing plenary	Friday 11:00-12:30

Biodiversity

Ecosystem services for sustainable socioeconomic development

Thursday, 2 June | 09:00-10:30 | Auditorium

Convener(s): Frank Vanclay

Format: Theme forum

IAIA Sections: Biodiversity and Social Impact Assessment

Ecosystems provide services that underpin human wellbeing and socioeconomic development. Addressing impacts on, and managing, ecosystem services should be key to responsible development. This joint session of the SIA and Biodiversity Sections showcases tools and approaches to enhance the value of ecosystem services and their role in supporting sustainable development.

Welcome and Introduction from the chair

Corporate ecosystem valuation: The business case

Violaine Berger, James Griffiths

Biodiversity loss and ecosystem degradation continue to escalate, putting business at risk. These risks are real, but if managed properly, can be transformed into new opportunities.

Ecosystem services and social benefits of rivers

Maria Antonieta Gómez Balandra, Pilar Saldaña Fabela, Rosadina Llerandi Juárez, María Dolores Olvera S., Marco Antonio Mijangos Carro

Natural flow regimes in rivers provide important environmental services and social benefit that can be affected or well managed by hydraulic infrastructure under the EIA framework.

Ecosystem services inclusive SEA

Maria Partidário, Rita Gomes, Constança Belchior

Ecosystem services can and should be incorporated into SEA as a fundamental component of strategic assessment in support of decision making.

Integrating ecosystem services in land use plans

Davide Geneletti

An analytical framework is presented that predicts and represents the effects of planning choices on a range of ecosystem services, and eventually on the well-being of different social groups.

Civil society action to enhance the human right to water

Raúl Hernández Garciadiego

The right to water is operationalised by the Water Security Index, which measures quantity, quality, certainty and affordability of supply. Local community projects in Mexico have improved watershed quality.

Questions and wrap-up

Corporate Stewardship and Risk Management

What constitutes responsible development in the extractives industry?

Tuesday, 31 May | 11:00-12:30 | Oriental I & II

Convener(s): Rita Sully, Rauno Sairinen, Debra Zanewich

Format: Theme forum

IAIA Sections: CSR and SIA

The premise of corporate responsibility is based on how a business operates while conducting its activities. This theme forum (a corporate stewardship and risk management and SIA collaboration) will focus on how the various components of corporate responsibility - social, environmental, governance, financial and technical - frame responsible development in the mining sector.

Responsible development in context

Renee Kearney

The Guinea Alumina Project (GAP) will comprise a 10 Mtpa bauxite mine and 3.6 Mtpa alumina refinery. The master planning process seeks to guide strategy development to achieve two main goals: firstly to embed and integrate sustainable development principles in project design, implementation and operations; and secondly to identify opportunities to contribute to development of the region and country. In doing so, it allowed for the clear definition of company, government and civil society roles and responsibilities, existing gaps and the steps and commitments necessary.

Toward sustainable CSR in Australian mining

Sara Bice

A timely analysis of the implications of CSR in the Australian mining industry for company-community relations and the role of voluntary and involuntary regulation in shaping CSR agendas and outcomes.

CSR in mining through the project lifecycle

Eleanor Gill

Managing the environmental and social impacts of mining projects requires strategies throughout the project lifecycle. This presentation discusses how Hatch incorporates CSR objectives into our engineering and construction management work.

CSR, governance, and mining: Canada and Mexico

Angeles Mendoza Sammet

This paper discusses the linkages between corporate social responsibility, governance, and impact assessment with respect to the operations of Canadian multinational mining companies in Mexico and other developing countries.

Social and environmental sustainability in private sector finance

Wednesday, 1 June | 09:00-10:30 | Oriental I & II

Convener(s): Mauricio Athié

Format: Theme forum/Panel discussion

The presenter will explain IFC's Sustainability Framework, otherwise known as Equator Principles, as recently revised. The presentation will be followed by a panel discussion with EP users including private firms and financial institutions, including commercial, bilateral and multilateral banks. Finally there will be a general chaired discussion with all participants.

IFC's sustainability framework

Reidar Kvam

This presentation describes the International Finance Corporation's sustainability framework, comprising the Sustainability Policy, Performance Standards, and Disclosure Policy. It also discusses how the Performance Standards address impact assessment and management, and key cross-cutting issues such as water, climate change, biodiversity, gender and human rights. A number of questions at the end of the presentation will set the scene for the panel discussion that follows.

Panel discussion chaired by Mauricio Athié

EIA Systems and Regulations

The power of peer pressure: Tools for benchmarking IA systems

Tuesday, 31 May 11:00-12:30 | Constanca

Convener(s): *Weston Fisher, Reinoud Post*

Format: *Theme forum*

In this theme forum, different ways of benchmarking IA systems will be presented. Presentations cover mechanisms to compare impact assessment regulations and the effectiveness of agency environmental mitigation and monitoring across countries, as well as more normative tools that allow countries to track their progress towards more effective EIA processes.

The African EA barometer

Peter Tarr

Africa's "EA Barometer" helps countries determine whether their EA systems are functioning properly. It has a simple, robust structure and scoring requires input from a wide range of well-informed stakeholders.

Evaluation of the Finnish EIA system

Jorma Jantunen, Pekka Hokkanen

The Finnish EIA system has been evaluated for the first time. Wide variety of evaluation methods and data as well as main results and challenges are introduced in the presentation.

Best practice review of EIA agency effectiveness

Weston Fisher

A systematic/participatory approach or "Best Practice Review" process can be used to examine an EIA agency's effectiveness, track action plan progress annually, and foster twinning support in EIA among countries.

EIA mapping: A yardstick for EIA system performance

Reinoud Post, Bobbi Schijf

EIA mapping is a participative and normative tool to assesses the quality of the regulatory framework for EIA and the level of compliance with this framework in a country.

IA: Its Influence in Decision Making

Does impact assessment lead to responsible development?

Wednesday, 1 June | 09:00-10:30 | Constanca

Convener(s): *Angus Morrison-Saunders, Jenny Pope*

Format: *Theme forum*

To what extent does impact assessment practice lead to responsible development for infrastructure, business and industry? Come and join this participative audience discussion to share your wisdom, experiences and views. The session will commence with short presentations from three continents, by Jenny Pope (Australia), Jos Arts (Europe) and Francois Retief (Africa). Thereafter the floor will be open for a facilitated open discussion on the topic.

Countries joining forces: Learning from regional approaches to EIA capacity development

Tuesday, 31 May | 11:00-12:30 | Auditorium

Convener(s): *Gwen van Boven, Dieudonné Bitondo*

Format: *Theme forum*

Capacity development is a constant aim and a constant concern for the Impact Assessment community. IA only supports responsible development—our conference's team—if capacities relate to development needs. How best to develop capacities in an ever changing IA system, in very different contexts and with often limited resources? At a regional level: how to achieve harmonized approaches yet recognize national differences? This theme forum will appeal to its participants in that it aims to reflect on different regional approaches in Africa and Central America trying to find commonalities—or not?—that make capacity development work. The differences in the approaches are striking—will the results be equally different? A wise international audience may draw lessons that may enrich programmes still to come.

Improving EIA systems in Central America

Grethel Aguilar

This Central American regional capacity development experience shows that well informed and trained countries can stimulate the use of tools like EIA and SEA from different sectors.

SEA Capacity Building in West Africa

Arona Soumare

In West Africa, our technique has been multifaceted. We produce considerable information on the utility of SEA vis-à-vis extractive industries and distribute it at meetings across the region.

Strengthening EIA systems through civil society

Dieudonné Bitondo, Gwen van Boven, Reinoud Post

This Central African EIA capacity building programme is unique in that it primarily targets national associations for EIA. Authorities engage in distinct activities and as individual members.

Smaller than plenaries and larger than concurrent sessions, **theme forums** bring together on a particular topic the various aspects of impact assessment and examine how those aspects apply to different sectors and issues.

Health

Health impact assessment in development country settings: From theory into practice

Tuesday, 31 May | 11:00-12:30 | Violeta I & II

Convener(s): Mark Divall

Format: Theme forum

IAIA Section: Health

The theme forum will expand on the rapidly developing practice of HIA and will introduce practical elements of conducting HIA in the developing country context for development projects.

The perspectives of both the project proponents and HIA practitioners will be shared and practical application of different methodologies will be outlined. A proponent will highlight why HIA is valuable to managing responsible development in the communities where they operate and the HIA practitioners will present different life cycle stages in the HIA process including, value of scoping, primary baseline data collection, stakeholder engagement and community health management plans.

Practice of HIA in developing countries

Mark Divall, Mirko Winkler

This paper will introduce the theme forum and discuss the centrality of scoping which relates to other papers included in this session.

HIAs and industry responsibility

Stephen Kisakye, Robert Barbour

HIAs involve multiple stakeholders with potentially different agendas. The HIA scoping and planning process is critical to ensuring HIA activities and ongoing health service responsibilities are clearly delineated.

HIAs on the ground in Philippines and Mongolia

Eliza Kurtz, Jane Thomason

This paper considers and reports novel and practical ways communities and local government officials have been engaged with, particularly to collect population health status and health perception information, the development of in-depth health impact assessments (HIAs) for large mineral extraction projects in the Philippines and Mongolia.

New tools for HIA in developing countries

Mirko Winkler, Mark Divall, Gary Krieger, Burton Singer, Jürg Utzinger

We present novel methodological features that have been developed for HIA of industrial development projects with an emphasis on scoping and baseline data collection in the field.

Aspiration versus operation: Executing a focused community health program

Gary Krieger, Marci Balge

Designing and executing a targeted, sustainable community health program within the context of a large industrial investment, the PNG LNG project, is a daunting task. The strategies, framework and execution plans will be discussed along with initial results.

HIA in 21st century: Time for a new consensus

Thursday, 2 June | 09:00-10:30 | Violeta I & II

Convener(s): Francesca Villani

Format: Theme forum

IAIA Section: Health

HIA is over 20 years old and it is now practiced in different geographical realities and with different purposes. The aim of this theme forum is to map past and present experiences in HIA in order to develop a new HIA consensus and to enable HIA to meet the challenges of the 21st century.

HIA and public policy development

Patrick Harris, Lynn Kemp, Peter Sainsbury

Findings from research identifying mechanisms and structures involved in progressing HIA within public policy are presented. The role of theory in developing HIA for public policy will also be discussed.

Learning from practice: A New Zealand case study

Richard Morgan

Evaluating a major irrigation project HIA in New Zealand: issues include links to other forms of IA, the role of stakeholder workshops; presenting HIA information to decision-makers.

Oil & Gas & Responsible Development

Oil and gas and responsible development

Wednesday, 1 June | 09:00-10:30 | Auditorium

Convener(s): Peter Tarr, Trine Hay Setsaas

Format: Theme Forum

Oil and gas production requires extensive on-site industrial activities for the life of the fields. This theme forum will present some of the latest experiences from the oil and gas sectors with respect to responsible development, or the lack of it. It will focus particularly on the role that impact assessment can or should play, and any obstructions to its efficiency.

Environmental cooperation with Oil for Development programme countries

Terje Lind

During the last few years, the Oil for Development programme, financed and run by the Norwegian government, has been cooperating with 20–25 countries in Africa, the Middle East, Asia and South America. In the field of environment, a number of topics have been the focus of the cooperation, including SEA and EIA. The paper will explore the experiences of this cooperation, and try to present some lessons of value for further cooperation in this field.

e-SHRIMP Four Years On: Report On User Experience

Ben Witchalls

e-SHRIMP stands for Environmental, Social and Health Risk and Impact Management Process. It is a lifecycle approach developed by a taskforce of the International Association of Oil and Gas Producers.

Indigenous Peoples: Vital partners

Peter Croal

This presentation will explore current Indigenous Peoples-private sector relationships, and a way forward for better negotiations and agreements.

Embedding the EIA process in PEMEX project cycle

Fernando D. Rodríguez, Edgar Perea López, Juan Carlos Belausteguigoitia

This presentation will describe the approach and initial framework being proposed to embed the environmental impact assessment process into the PEMEX Project Development Management System.

Social Impact Assessment

Agreements between companies and communities: What do they mean for impact assessment?

Wednesday, 1 June | 09:00-10:30 | Violeta I & II

Convener(s): Ana Maria Esteves, Martin Haefele, Murray Jones, Daniel Franks

Format: Theme forum

IAIA Section: SIA and Indigenous Peoples

Impact benefits agreements are influencing how indigenous people participate in IA. Unlike compliance IA, agreements uphold the principles of community consent, value local knowledge, and recognise indigenous communities' rights and aspirations to development on their own terms. This session will focus on how agreements and IA can inform each other.

Impact Assessment, agreements, and Free Prior Informed Consent

Martin Haefele

Issues commonly addressed in agreements between indigenous communities and companies are also important issues in impact assessments of projects in indigenous people's traditional territories. Agreements are naturally a good vehicle to obtain free prior informed consent (FPIC). In northern Canada, impact assessment is increasingly used to accomplish aboriginal consultation and accommodation, a concept similar to FPIC. Although currently dealt with in isolation, impact assessment and agreements are inextricably linked.

CDAs: Trends and lessons learned

Sunrita Sarkar, Kristina Svensson

Sunrita Sarkar, ERM and Kristina Svensson, World Bank will make a joint presentation from their World Bank Study on CDAs; trends and lessons learned.

The EAP dialogue: Challenges and achievements

Alonso Zarzar

This paper presents a review of the Energia, Ambiente y Poblacion tripartite dialogue between Indigenous Peoples, governments and oil and gas industry in the Andean Amazonian countries.

Do IAs result in better outcomes than agreements?

Claire White, Aidan Davy

IA practitioners are concerned that subjective Indigenous aspirations may undermine objective scientific truths in negotiating agreements. This paper argues that such concerns are often misplaced and that benefits over-ride risks.

Strategic Environmental Assessment

Maximising SEA influence for poverty reduction

Thursday, 2 June | 09:00-10:30 | Constancia

Convener(s): Peter Croal

Format: Theme forum

This theme forum will be of interest to IAIA members who represent developing countries, emerging economic powers and developed countries. The overlap of these development partners will provide a broader opportunity for idea and information exchange, and networking. Teebweb.org has shown that environmental and ecosystem services do have a significant role to play in economic development planning that is more contemporary and validates the value of ecosystems goods and services. SEA is a significant component of this kind of analysis.

The audience will learn how SEA has been used in poverty reduction activities through the work of the OECD DAC Task Team on SEA, specific countries that have used SEA for better development planning, and how the World Bank is reforming sector planning through the use of SEA in institutional formats.

SEA in Latin America: Experiences of the IDB

Elizabeth Brito

This paper describes the evolution of SEA in the Inter-American Development Bank (IDB), summarizes lessons learned from its application, and delineates its role in fostering SEA implementation in Latin America.

The role of SEA in Namibia: Lessons from recent case studies

Peter Tarr

SEAs are required for policies, plans and programmes in Namibia. While recent SEAs have strongly influenced decision making, on some issues it is hard to break "business as usual" mindsets.

SEA in policy and sector reform: The World Bank Pilot Program on SEA

Fernando Loayza

Policy SEA requires calling attention to environmental priorities, strengthening constituencies, enhancing policy capacities and promoting social accountability. Institutional assessment and understanding of political economy are also key factors.

SEAs for landscape-based development planning in the GMS

Pavit Ramachandran

The Asian Development Bank through the GMS Core Environment Program and Biodiversity Conservation Corridors Initiative (CEP-BCI) is supporting the GMS governments to ensure sound investment planning along the economic corridors, through a suite of ex-ante Strategic Environmental Assessments, integrating spatial decision support analysis and predictive modeling techniques. The presentation will discuss three such examples from the GMS: (i) the SEA of the Power Development Plan VII in Viet Nam, (ii) SEA of the Tourism Sector in the Golden Quadrangle of the GMS, and (iii) SEA of the Land Use Plan of Quang Nam Province, Viet Nam.

Other Topics

Perspectives on partnerships for responsible project delivery

Thursday, 2 June | 09:00-10:30 | Oriental I & II

Convener(s): Charlotta Faith-Ell, Jos Arts, Ana Maria Esteves, Ilse Aucamp

Format: Theme forum

Managing the environment for sustainable outcomes requires a cradle-to-grave approach involving more than just environmental role-players. Partnerships between different players are needed to ensure responsible project-delivery. This theme-forum investigates various perspectives on partnerships between regulators, developers, contractors and communities- It discusses instruments and tools available thereby giving guidance to IA-practitioners.

Perspectives on partnerships

Charlotta Faith-Ell, Jos Arts, Ana Maria Esteves, Ilse Aucamp

This paper elaborates on the various perspectives on partnerships between regulators, developers, contractors and communities. It discusses instruments and tools available thereby giving guidance to IA practitioners.

Green procurement for developing partnerships in IA

Jos Arts, Roel Nijsten, Sander Lenferink

The Netherlands gained experience in combining IA and green procurement for infrastructure development. This paper discusses approaches and lessons learned. Green procurement may help to establish partnerships in IA and achieving sustainability.

Procuring green energy in the construction sector

Kedar Uttam, Berit Balfors, Charlotta Faith-Ell, Ulla Mörberg

This paper explores opportunities for procuring renewable energy in the construction sector through IA. The paper also discusses the role of green procurement and innovative partnership systems.

Incentives in contracting for project delivery

Melissa Wells

This paper explores how contracting mechanisms are used in the extractive and aid industries to motivate project partners to deliver in line with a client's social impact commitments.

Agriculture, Forestry & Fisheries

SEA for agriculture and agriculture, forestry and fisheries certification

Friday, 3 June | 09:00-10:30 | Oriental I

Convener(s): John Fry

Format: Paper session

IAIA Section: Agriculture, Forestry and Fisheries

Sustaining agricultural production will remain an imperative for the foreseeable future. Can the environmental impacts of agriculture be anticipated and effectively addressed at the strategic level? The session presents a range of cases studies that should generate useful discussion.

The potential of SEA in the Common Agricultural Policy

Carlo Rega, Agata Spaziante, Chiara Murano

SEA of agricultural-related plans and programs can be an effective tool for achieving the environmental objectives that the new Common Agricultural Policy assigns to agriculture in Europe.

EA effectiveness, Zambia National Sugar Strategy

Juan Palerm, Stephanie Rousseau, Tonnis Sierevogel, Munguzwe Hichaambwa

Analysis of the effectiveness of the SEA for Zambia's National Sugar Strategy, which aimed at improving the environmental effectiveness of Zambia's reform for its sugar sector.

Agriculture environmental assessment, Yukon, Canada

William J. Klassen

In 2003 the Yukon Environmental and Socio-economic Assessment Act began to require the assessment of certain agricultural projects' effects on the environment and traditional land uses of aboriginal peoples.

Climate change and its effect on agriculture, forestry and fisheries

Tuesday, 31 May | 14:30-16:00 | Luz B

Convener(s): Patrick Duffy

Format: Paper session

IAIA Section: Agriculture, Forestry and Fisheries

The changing environment is a number one challenge to agriculture now and in the future. All levels of society, government and industry deserve to be well informed on this threat and what to do about it. You are invited to hear the cases presented and then to share in the discussion on the solutions.

Reindeer husbandry-using the past to predict the future

Lotta Jaakkola, Timo Helle

During the 20th century, reindeer husbandry has adapted to changes in the environment. The knowledge of the past adaptation can be applied in the prediction impacts of climate change.

Impact assessment of the climate change solutions

Buddhina Nuntavorakarn, Duangjai Rungrojcharoenkit, Decharut Sukkumnoed

Sustainable agriculture is a climate change solution. It could lead to reducing farmers' impacts and enhancing their resilience to climate change and also contribute to low carbon and low risk society.

Adaptive resource management under climate change

Patrick Duffy

As the rate of change relative to agriculture and forestry has no analogue, ARM holds promise for orderly planning and management in Eastern Europe and Mid Asia.

Environmental risks and agriculture, forestry and fisheries, with emphasis on fisheries

Tuesday, 31 May | 16:30-18:00 | Luz B

Convener(s): Ijeoma Vincent-Akpu

Format: Paper session

IAIA Section: Agriculture, Forestry and Fisheries

The session will be devoted to understanding environmental risks as opposed to impacts. We should look at the types of risks that occur from the implementation of agriculture, forestry and fisheries practices, with examples drawn from fisheries.

Oil spill tracking and characterization

Anthony Ogbeibu, Ronald Onyeonwu

Ethiopia river system and its environment experienced the worst oil spill in recent times. Indicator parameters and Vanadium - Nickel ration were used to detect spill source and magnitude.

Risk assessment: Impact on fisheries sector

Ijeoma Vincent-Akpu

This paper highlights effects of agriculture, forestry and fisheries on the fish and fisheries of the Niger Delta and how risk assessment can be used to aid decision making.

EIS on hatchery management and funding in the U.S.

Pamela Gunther

An EIS was prepared to identify policy direction to guide distribution of funds for hatchery programs and future reviews of hatchery programs under the Endangered Species Act.

Agricultural planning and environmental sustainability

Thursday, 2 June | 14:30-16:00 | Luz A

Convener(s): Bill Klassen, Pamela Gunther

Format: Paper session

IAIA Section: Agriculture, Forestry and Fisheries

Land use change in Brazil: The effectiveness of EIA

Amarilis Lucia Casteli Figueiredo Gallardo, Alan Bond

New sugar cane developments are subject to EIA in Brazil. This research evaluates EIA effectiveness and limitations in the context of land use change assessment which demands more strategic consideration.

Sustainability assessment of sugarcane in Brazil

Ana Paula Turetta, Heitor Luis Costa Coutinho, Lucy Teixeira Guimarães

This paper aims to present an approach to assess the sustainability of sugarcane expansion in Mato Grosso do Sul, Brazil.

Assessing sustainability of bioenergy production

Rocio Diaz-Chavez

This paper presents a framework for the sustainability assessment of bioenergy production. This includes the review of EIAs to determine their usefulness to this assessment.

Eco-services from multifunctional agriculture

Francis Karanja

This study used GIS modelling approach to evaluate how integration of native vegetation in the form of windbreaks in cotton farming influences the provision of ecosystem services and associated trade-offs.

Biodiversity

Modeling biodiversity strengthens SEA and land use planning

Wednesday, 1 June | 11:00-12:30 | Violeta I

Convener(s): *Wilbert van Rooij, Arend Kolhoff*

Format: *Workshop*

IAIA Section: *Biodiversity & Ecology*

In this session an overview is given of strengths and limitations of biodiversity assessments with GIS modeling tools for integrated assessments and land use planning. Practical examples of biodiversity impact assessments are presented as well as how to embed these tools in an integrated assessment.

Supporting decision-making: A case study

Selwyn Willoughby

This paper will outline the approach by the South African National Biodiversity Institute to ensure accountable and responsible uptake of biodiversity information for planning and decision-making.

Developing IBIA: Data limitations on GIS support

Ainhoa González, JohnFry

Identification of critical spatial datasets and evaluation of limitations in the context of an integrated biodiversity impact assessment methodology.

Modelling biodiversity strengthens SEA and land use

Wilbert van Rooij, Arend Kolhoff

Biodiversity models can help SEA practitioners and land use planners who want—but do not know how—to take into account biodiversity objectives in their land use plans.

Landscape level ecological impact assessment

Ulla Mörtberg, Mårten Karlson, Berit Balfors

Transport infrastructure has substantial environmental impacts, not at least on biodiversity. In this study, GIS-based habitat models and tools are developed for landscape level assessment of biodiversity impacts.

Evaluation model for conservation plan in Korea

Changwan Seo, Hyuksoo Kwon, Chonghwa Park

This paper is an ecological evaluation model for regional conservation planning in Korea, using species distribution model, key species, connectivity analysis, representativeness, rarity.

Improved access to biodiversity data for, and from, EIAs using GBIF

Wednesday, 1 June | 11:00-12:30 | Constancia

Convener(s): *Nicholas King, Selwyn Willoughby, Asha Rajvanshi, Vishwas Chavan*

Format: *Workshop*

IAIA Section: *Biodiversity and Ecology*

In 2009, IAIA and the Global Biodiversity Information Facility (GBIF), a multi-country initiative to facilitate open access to biodiversity data worldwide via the Internet, signed an MoC to collaborate to utilise the GBIF experience, data standards, and architecture to develop protocols and processes for mobilising all biodiversity information gathered during IA work worldwide. This workshop will provide feedback on the completed pilot phase of the project, lessons learned to date, tools and templates developed in response to user needs and, through the launch of a "Best Practices Guidelines," the opportunity for practitioners to become lead-implementers in take-up and thus early beneficiaries.

Biodiversity: Bringing business on board

Wednesday, 1 June | 11:00-12:30 | Auditorium

Convener(s): *Liz Clarke, Courtney Lowrance*

Format: *Paper session*

IAIA Section: *Biodiversity and Ecology*

This session will explore the emerging business and biodiversity landscape, presenting the latest thinking on issues to include biodiversity-inclusive impact assessment; safeguarding ecosystem services; mitigation and offsetting; standards and certification; and finance, valuation and risk assessment tools. A panel discussion will present different perspectives on securing effective engagement of business.

Corporate ecosystem valuation: The business case

Violaine Berger

Today's biodiversity and ecosystem challenge means business increasingly needs to include ecosystem values into its decision-making. Valuing ecosystem services can help business more accurately assess its ecosystem-related risks and opportunities.

Finance: Mechanisms for safeguarding biodiversity

Ermani Pilla, Monica Barcellos Harris

Review of the biodiversity requirements of 36 environmental standards and certification schemes used by finance and other sectors. This analysis looks at how biodiversity is considered and the requirements in place for its protection.

Engaging business on biodiversity: Mining and metals

Mark Holmes

The mining and metals sector has and will continue to have an impact on biodiversity. ICMM is an organization of leading mining companies working together with others to improve the biodiversity and sustainability performance of the industry.

New Tool Towards Sustainable Investment Projects

Clara Whyte, Roelof Boumans, David McNally

Business managers need new tools, based on dynamic-integrated valuation approaches of ecosystem services, to take the most profitable decisions in complex environments where many potential trade-offs can be made.

Biodiversity offsets: Financial institutions and business "on the same page"?

Thursday, 2 June | 14:30-16:00 | Auditorium

Convener(s): *Courtney Lowrance*

Format: *Paper session*

IAIA Section: *Biodiversity and Ecology*

Nature is in deficit. Financial institutions and business can help to conserve biodiversity and ecosystem services. Are they talking the same language? Financial institutions are starting to take biodiversity offsets seriously, and are incorporating requirements for offsets in their performance standards.

An overview of global trends in biodiversity banking and markets

Courtney Lowrance, Rebecca Madsen

Last year, Ecosystem Marketplace launched "State of Biodiversity Markets," tracking biodiversity offset and compensation programs globally. This session will provide a big picture of what's happening, where, and how much.

Biodiversity offsets and ESIA Schedules

Derek Melton, Steven Dickinson, Kristine Sare, Pierre Berner

Increased guidance documentation and case studies are becoming available for biodiversity offset planning and implementation. Here we discuss key opportunities and challenges for planning biodiversity offsets within an ESIA schedule.

Integrating biodiversity offsets into the project

Courtney Lowrance

Financial institutions get involved with financing at many different stages of project development. Here we discuss opportunities and challenges of introducing biodiversity offset requirements at different stages of project development.

Decision points and content issues in offsets

Ermani Pilla

We discuss some methodological challenges involved in ensuring design of robust biodiversity offsets proposed for financing, focusing on baseline data and the ESIA process as part of the project cycle.

EDC's experience with biodiversity offsets

Christopher Pullen

Using case studies, this presentation will summarize EDCs experience and lessons learned from benchmarking impact assessments and biodiversity offsets in the context of extractive sector projects.

Concurrent sessions

Biodiversity

Developing an Integrated Biodiversity Impact Assessment (IBIA) methodology

Tuesday, 31 May | 14:30-16:00 | Violeta II

Convener(s): Orlando Venn, Liz Clarke

Format: Paper session

IAIA Section: Biodiversity

This session on the development of an Integrated Biodiversity Impact Assessment (IBIA) methodology will discuss key legal and administrative requirements that are critical for effectively integrating biodiversity considerations into decision-making. It will also highlight some tools and methods that could be used to streamline processes and address information needs for biodiversity impact assessment.

Developing IBIA: Process and content?

John Fry, Tamara Hochstrasser, Ainhoa González, Paul Scott, Peter Carvill, Harutyun Shahumyan

Combining procedural guidelines with content-based decision support (modeling) into an effective integrated biodiversity assessment methodology.

Developing IBIA: A standardised AA review package

John Fry, Paul Scott, Ainhoa González

Using checklists and review criteria for testing quality in integrated biodiversity impact assessment.

Developing IBIA: Review of previous AAs in Ireland

John Fry, Fintan O'Connell

Findings of a review of 20 appropriate assessments and recommendations for the development on an integrated biodiversity impact assessment methodology.

Developing IBIA: Review of GIS-compatible methods

Ainhoa González, John Fry, Harutyun Shahumyan

Review of spatial biodiversity assessment methods and identification of valuable techniques to support an integrated biodiversity impact assessment methodology.

Ecosystem services in environmental impact assessments: A practical guide

Thursday, 2 June | 16:30-18:00 | Auditorium

Convener(s): Orlando Venn

Format: Workshop

IAIA Section: Biodiversity

With ecosystem services shaping national ecosystem assessment (e.g., UK National Ecosystem Assessment) and international safeguards (e.g., draft Performance Standards of the International Finance Corporation), we can expect ecosystem services to increasingly permeate the world of environmental assessments. The World Resources Institute (www.wri.org) will present a conceptual framework and associated tools to address ecosystem services in EIAs and will invite feedback from the attendants.

From biodiversity to ecosystem services: The changing face of EIA

Wednesday, 1 June | 14:30-16:00 | Luz B

Convener(s): Orlando Venn, Liz Clarke

Format: Paper session

IAIA Section: Biodiversity

Ecosystems and biodiversity provide a wide range of benefits to people. In recent years there has been growing recognition that these "other than intrinsic" values of biodiversity must be included in EIA practice. The session will explore different ways to identify the values attached to biodiversity and ecosystems, to assess and evaluate impacts on these values, and seek appropriate mitigation.

Assessing the feasibility of using (ESV) in (EIA)

Naghmeh Mobarghei Dinan

Results shows that the main reasons for EIA shortcoming in Iran are "lack of appropriate administrative structure, qualitative criteria of assessment and shortcoming in access to the information."

Ecological impacts of transport infrastructure

Mårten Karlson, Berit Balfors, Åsa Erlandsson, Anders Hedlund, Ulf Lindbolm, Kristina Lundberg, Ulla Mörtberg

Based on interviews with relevant professionals, this study reviews experiences of implementing ecological impacts in EIA of regional scale infrastructure planning procedures.

Ecosystem services and conservation values in EIA

Markku Kuitunen

Ecosystem services and conservation values in the context of EIA are an important area. We used GIS for spatial comparison. The tentative results are ready.

Resilience thinking in SEA: A follow up discussion

Friday, 09:00-10:30 | Constanca

Convener(s): Orlando Venn, Aranka Podhora

Format: Workshop

IAIA Section: Biodiversity

Resilience is the capacity of a social-ecological system to tolerate disturbance without collapsing. Last year's first workshop on resilience thinking and SEA suggested that resilience thinking provides a better framework for the definition of true sustainability, including guidance on how to deal with a complex, in principle, unknowable future. This year we will continue the discussion with SEA cases subjected to a resilience assessment, and real-life applications of resilience thinking.

Resilience in the SEA of a connectivity strategy

Heikki Kalle, Charlotta Faith-Ell

The largest island in Estonia, Saaremaa, is facing several problems influencing the future development. This paper aims at discussing the integration of resilience thinking in the SEA of a connectivity strategy.

Sustainability planning, assessment and management

Jenny Pope, William Grace

A framework grounded in resilience theory is proposed to enable a single broad approach to sustainability planning, assessment and management to be consistently applied at any scale.

Applying resilience thinking

Orlando Venn, Riki Therivel, Mike Jones, Marie Hanusch, Elsa Joao, Nick King

The outputs of two workshops on resilience thinking and SEA will be presented to invoke further discussion on the additional value of resilience assessment and how it might enhance SEA.



IAIA
International Association
for Impact Assessment

27 may - 1 june 2012
porto, portugal

Energy Future
the role of impact assessment

Capacity Building

Coaching and mentoring: More effective alternatives to the short course?

Tuesday, 31 May | 16:30-18:00 | Esperanza

Convener(s): *Bobbi Schijf, Lex Brown*

Format: *Paper session*

Short training events are not the most effective way to develop capacity. More can be achieved with a longer-term connection between the trainer and the trainee (via coaching or mentoring). Experiences shared in this session cover training of trainers in Africa, mentoring for environmental mainstreaming in Bhutan and SEA coaching in Turkey.

Some capacities need to be built more slowly

Lex Brown

Environmental mainstreaming capacity-building depends on context, must focus on non-environmental institutions, and more about changing planning-and policy-making mindsets than about tools. Approaches different to EA short courses are required.

Learning together: SEA and EIA coaching

Bobbi Schijf, Charlotte Bingham

Practice shows that absorption from a single training is often limited, but that additional on-the-job coaching can help to cement learning. We share experiences from USAID EIA training in Africa and NCEA SEA capacity development.

Training the trainers: Myth and reality

Jean Hebert

Based on past experiences and future projects currently design, this presentation will present the lessons learned and design of what should be an efficient train the trainers project in EIA.

Coaching EIA trainers in Central Africa

Gwen van Boven, Dieudonné Bitondo, Reinoud Post

Intense coaching and focus on didactics are required for an effective training of trainers. Recent experiences demonstrate how teams of EIA trainers were formed and coached in Central Africa.

Climate Change Mitigation and Adaptation

Climate change in the coastal zone, EIA, SEA, mitigation and adaptation I

Tuesday, 31 May | 14:30-16:00 | Violeta I

Format: *Paper session*

Convener(s): *Pedro Bettencourt*

This session will focus on the effects of climate change on the coastline and on mitigation and adaptation measures to face them. Coastal dynamics, coastal impact assessment, the importance of the use of advanced technological tools in projects management and the ecological enhancement of hard structures will be discussed.

Climate change and risk assessment in coastal areas

Pedro Bettencourt, Sónia Alcobia, Carlos Jesus

One of the key effects of climate change is the reshaping of the world's coastlines. This paper deals with coastal change, risk assessment and environmental and socio-economic impacts.

Impact of sea level rise on the Nigerian coast

Olusola Popoola, Victor Abbott, Gillian Glegg

The reaction of the Barrier Coast (Nigeria), to scenarios of Sea level rise (SLR). Geographic information system (GIS) models/maps were used to showcase the implications.

Vulnerability assessment of the Korean Coast

Kwangwoo Cho

Overall shoreline retreat rate for the Korea coast is 43.7% for 38cm, 60.3% for 59cm, 69.2% for 75cm, and 80.1% for 100cm sea level rises, respectively.

Climate change in the Coastal Zone, EIA, SEA, mitigation and adaptation II

Tuesday, 31 May | 16:30-18:00 | Violeta I

Convener(s): *Pedro Bettencourt*

Format: *Paper session*

This session will focus on the effects of climate change on the coastline and on mitigation and adaptation measures to face them. Coastal dynamics, coastal impact assessment, the importance of the use of advanced technological tools in projects management and the ecological enhancement of hard structures will be discussed.

Integrating ecosystem services into CEAs in Mexico

Javier Clausen, Sergio Contreras

The complexity of the ecosystem services along Mexican Pacific coastal wetlands and practitioners' challenges for integrating climate change into project EIAs and CEAs in Mexico.

Use of technological tools in EIA coastal projects

José Luis Rojas, David Zárate, HectorAlafita, Martín Quijano, Grethel Villcaña

An analysis of the application of advanced technologies such as LIDAR and digital aerial photography and GIS in several cases of management of coastal tourism projects.

Ecological adaptation of coastal structures

Orlando Venn, Larissa Naylor, Richard Thompson, Martin Coombes, Stephen Roast

This paper illustrates the potential benefits and opportunities of ecological enhancement of hard coastal structures, describing how environmental assessment can help facilitate identification and delivery, illustrated by case studies.

Climate change and impact assessment: Available guidance for practitioners

Thursday, 2 June | 14:30-16:00 | Constanca

Convener(s): *Rob Verheem*

Format: *Workshop*

At the 2010 IAIA conferences in Aalborg and Washington, D.C., on impact assessment and climate change, sessions were organized on how to make available guidance more accessible for impact assessment practitioners. In this workshop, we translate this discussion into a road map for better accessibility, specifically for practitioners in developing countries. What guidance is available, when and where is it applicable, and what would an online database look like? Two presentations will start the discussion.

Integrating climate change into project-based EIA

Vong Sok

A survey of IAIA members was undertaken to find out how project-based EIA should deal with climate change; the main results will be presented including guidance for the way forward.

Guidance on integrating climate change in IA

Rob Verheem

As a follow-up to the IAIA Aalborg climate change conference, we will present and discuss a road map on how to make guidance to integrate climate change in EIA and SEA accessible for impact assessment practitioners.

Concurrent sessions

Climate Change Mitigation and Adaptation

Climate change-inclusive SEA & EIA

Thursday, 2 June | 16:30-18:00 | Alto A

Convener(s): *Arend Kolhoff*

Format: *Paper session/discussion*

Environmental assessment in a changing Arctic

Tobin Seagel

Climate change is accelerating development of the arctic, transforming the environmental and anthropogenic landscape. CEA could facilitate development of an integrated and regional basis for planning and management of resources.

Assessing support for emissions reduction policy

Galina Ivanova, John Rolfe

This paper outlines some options to use stated preference non-market valuation techniques that can be used to assess communities' preferences on climate change mitigation policy options (i.e., emissions reductions policy).

Climate change inclusive SEA in Vietnam

Arend Kolhoff

A climate change inclusive SEA is developed for a provincial socio-economic development plan in the vulnerable Mekong delta of Vietnam. A pilot for Vietnam and possibly other vulnerable countries.

Climate change, EIA and the Great Barrier Reef

Adam Smith

The long-term outlook for the Great Barrier Reef ecosystem is at a crossroad. In a changing climate we have to re-evaluate what and how we are managing.

Corporate Stewardship and Risk Management

The Corporate Stewardship and Risk Management section has organized three sessions to explore and discuss how impact assessment contributes to responsible development. Various perspectives will be shared. The Theme Forum exploring "What Constitutes Responsible Development" will draw on examples from the Extractive Industry, a workshop will focus on "Mexican Perspectives on Sustainable Infrastructure", and a hybrid paper-panel session, "Latin American focus on responsible development," will focus on case studies from Latin America and lessons learned while committing to carrying out projects in a responsible manner.

Mexican perspectives on sustainable infrastructure

Wednesday, 1 June | 11:00-12:30 | Alto A

Convener(s): *Ana Paula Fernández del Castillo*

Format: *Workshop*

IAIA Section: *CSR*

Sustainable infrastructure is critical to development. This workshop will discuss how the private sector contributes to sustainable infrastructure and how it maximizes shared value to different stakeholders. Through a facilitated discussion, each of the speakers will highlight key underpinnings of the business case for sustainability and its strategic value. Perspectives will be shared from the construction, cement, and urban planning sectors.

ICA, sustainability as a competitive advantage

Ana Paula Fernández Del Castillo, Alejandro Lelo de Larrea

In ICA we believe sustainability is to satisfy the needs of our stakeholders, while conducting the business in a responsible economic, social and environmental way.

Sustainable infrastructure

Jesús Gonzalez

The challenge for companies in the infrastructure sector is to find the meaning of sustainability and incorporate it into their business strategy. KPMG will show its expertise on this matter.

Sustainable development in the cement sector

Laura Pardo

As part of its strategy, Cemex is continually working not only to reduce the environmental impact of its production process, but also to enhance the attributes of the building materials it uses.

Sustainable urban planning and housing

Carlos Garcavélez

Integral Sustainable Urban Developments (DUIS) offer sustainability with urban planning offering an affordable and sustainable place to live in Mexico. The author, a designer of such developments, presents his view.

Latin American focus on responsible development

Wednesday, 1 June | 14:30-16:00 | Alto A

Chair: *Debra Zanewich*

Format: *Paper session/workshop*

IAIA Section: *CSR*

This session will combine speaker presentations, QAs, and a discussion period focusing on case studies from Latin America and lessons learned while committing to carrying out projects in a responsible manner.

Social responsibility and the law of unintended consequences

DG Mickey Steward

Corporate social responsibility in general is awash in non-functional programs. Presentation of a case study of waste management in northern Baja California-Big Sur draws conclusions of general utility for developing successful programs.

Developing a sustainable electric system: Mexico

Francisco Hernández-Alvarez, Guillermo Zúñiga-Gutiérrez

CFE has developed procedures and strategies for protecting biodiversity, human populations and cultural heritage for constructing a sustainable national electric system. Those procedures and strategies are described here.

Sustainability and the New Quito Airport

Graeme Smith, Ernesto Monter, John Saczkowski

The New Quito International Airport is a public/private project with financing from multilateral lending institutions. Key sustainability initiatives will be discussed as well as driving forces and barriers behind them.

Corporate Stewardship and Risk Management

Human rights impact assessment

Tuesday, 31 May | 16:30-18:00 | Alto B

Convener(s): *Rita Sully*

Format: *Paper session*

IAIA Section: *CSRM*

A panel-style format will explore the current “state of play” with Human Rights Impact Assessment (HRIA). It will highlight emergent purposes and uses of HRIA; identify some of the conceptual, methodological, practical and ethical issues and challenges that arise in relation to its use; and facilitate dialogue amongst practitioners and users of HRIA.

Company human rights impact assessments

Désirée Abrahams

As a recent newcomer to IA, this presentation will highlight the unique importance for companies in pursuing HRIA, as illustrated by the Guide to HRIAM.

Human rights due diligence: Extractives in LatAm

Michael Auerbach

Human rights due diligence is not a one-time assessment but an on-going process of monitoring and engagement. This means a dynamic and transparent process in which repeated assessments are conducted.

Are HRIAs the preferred approach to exercising due diligence?

Claire White, Aidan Davy

Human Rights due diligence and HRIAs are often viewed as synonymous. This paper explores practical and ethical challenges with conducting and disclosing HRIAs, and alternative options for undertaking due diligence.

Mainstreaming human rights in impact assessment

Gillian MacNaughton

This paper argues that governments have legal obligations to carry out human rights impact assessments and advocates that governments comply by integrating human rights into impact assessments they already perform.

Right to health impact assessment of trade rules

Lisa Forman

This presentation explores the potential for right to health impact assessment to mitigate the public health impacts of trade-related intellectual property rights in low and middle-income countries.

Corporate Social Responsibility (CSR), development and environmental footprints

Tuesday, 31 May | 14:30-16:00 | Oriental I

Convener(s): *Shivcharn S. Dhillion, Orlando San Martin*

Format: *Paper session*

IAIA Section: *CSRM*

This session presents mechanisms for the practice of social and environmental responsibility that instill community participation, transparency, and sustainability. Through case studies, presenters will illustrate tangible mechanisms for social and environmental development interventions and assessment approaches, triggering benefit sharing and ultimately reducing footprints of hydropower projects.

CSR, global change, adaptation and stakeholders

Shivcharn Dhillion

CSR strategies can include global change issues to instill good-will and meaningful actions. Core aspects must include awareness, adaptation strategies and stakeholder participation.

Promoting local development by benefit sharing

Orlando San Martin, Shivcharn Dhillion

This paper will elaborate on the challenges of establishing “benefit sharing” mechanisms, taking into account the interests of 1) those issuing benefits (project developers); and 2) the beneficiaries (local communities).

SN Power’s journey in southern Chile

Ana Maria Miquel

A look at the route taken by SN Power in its projects in Chile, showing the challenges, mistakes and successes of the relationship with indigenous communities in the territory.

Breaking the Camel’s Back? CEA that works

Miles Scott-Brown, Juan Quintero

Simple tools for assessing cumulative effects of private sector infrastructure projects and suggestions as to how practical and operative cumulative effects management frameworks can be put in place.

Company’s strategic environmental alignment

Rodrigo Jiliberto

Company’s strategic environmental alignment is an innovative analysis tools aiming at providing companies with an integrated and long term vision for the fulfilment of their environmental responsibility.

Cultural Heritage

Cultural heritage in impact assessment: Benefits and good practice I

Thursday, 2 June | 14:30-16:00 | Luz B

Convener(s): *Arlene K. Fleming*

Format: *Paper session*

IAIA Section: *Cultural Heritage*

Interest in the cultural heritage component of impact assessment and attention to methods and quality are increasing in IAIA and throughout the world. This session explores the practice in several countries, presents effective techniques, and considers the important role of local populations, including indigenous peoples.

EIA and the protection of cultural heritage in Africa

Ishanlosen Odiava, Yves André Prevost

Examines the interplay between heritage and development policies in Africa and how EIA can ensure the conservation and protection of heritage in the context of development.

Authorities’ attitude: Cultural heritage in EIA

Inge Lindblom

What do people working in Norwegian regional and national authorities think about the importance of EIA on cultural heritage?

Assessment of impact on built cultural heritage

Tatiana Vakhitova

Heritage impact assessment (HIA) within the framework of UK’s World Heritage sites with Outstanding Universal Value. The paper debates existing HIA methodologies and challenges in regard to their practical application.

Cultural Heritage Protection in CFE (Mexico)

Juan Manuel Álvarez Pineda, Deyanira Bello

Protection strategies implemented by CFE for installation of electrical infrastructure prevent negative impact on Mexican cultural heritage and contribute to its conservation, as well as to research and public outreach.

Sharing heritage baseline skills in Central Africa

Paul Wheelhouse, Susan Evans, Steve Smith, Neville Roberts

The appreciation of cultural heritage can be complicated. Using local expertise and systematic recording, Golder’s involvement with archaeologists in the Central African Republic has promoted the transference of skills and knowledge.

Concurrent sessions

Cultural Heritage

Cultural heritage in impact assessment: Benefits and good practice II

Thursday, 2 June | 16:30-18:00 | Luz B

Convener(s): *Arlene K. Fleming*

Format: *Paper session*

IAIA Section: *Cultural Heritage*

Interest in the cultural heritage component of impact assessment and attention to methods and quality are increasing in IAIA and throughout the world. This session explores the practice in several countries, presents effective techniques, and considers the important role of local populations, including indigenous peoples.

Archaeological predictive models for ESIA baseline

Emlen Myers, Doug Park, Lizzie Bunnan

The role of archaeological predictive modeling in ESIA baseline studies is discussed, concluding that the method can be indispensable for large infrastructural projects where basic archaeological inventory data are unavailable.

Community collaboration enriches cultural heritage

Ezequiel Pinto-Guillaume

Using local communities as a resource has deepened our understanding of the contextual values of a place. Involvement with the intangible knowledge of the communities is essential as a resource.

Cultural heritage protection: A new relationship

André Burroughs

A profound interest on part of the indigenous population of northern Quebec led to the creation of an ambitious cultural heritage program carried out as part of the EIA.

Assessment of the impacts of Canada's oil sands

Karin Buss

Impact assessments conclude that the mammoth development of Canada's oil sands will have no significant adverse effects on local Indigenous communities. Is this the result of flawed impact assessment methodology?

Traditional territories of Indigenous People

Patricia McCormack

Canadian impact assessment panels expect Indigenous people to draw fixed boundaries around their traditional lands, which conflicts with the cultural concepts of Indigenous peoples themselves about their traditional land base.

EIA Systems and Regulations

EIA legislation: Development, amendment and review

Thursday, 2 June | 11:00-12:30 | Violeta II

Convener(s): *Simon Marsden*

Format: *Paper session*

IAIA Section: *EIA Law, Policy and Practice*

This session considers the development, amendment and review of EIA legislation. Case studies from Latin America, Africa and elsewhere evaluate the successes and failures of such laws in their specific jurisdictional contexts.

Legal framework of Chilean EIA: New agencies

Andrés Sáez

This paper demonstrates the development of EIA in Chile, explains the main legal amendments introduced by the Environmental Law and discusses how necessary it is to achieve technical standards in EIA.

EIA after natural disasters: Experience in Chile

Bolívar Ruiz, Oscar Parra, Ignacio Toro

This paper reviews the challenges to ensure appropriate assessment during an emergency situation. In other words, necessary projects should be implemented with no delays considering protection of the environment.

Environmental assessment in Spain

Miguel Angel Casermeiro, Sergio González-Ubierna, Ana Pilar Espluga, Luis Adolfo Desdentado, Manuel Díaz, Juan Miguel Martínez-Orozco, Iñigo Sobrini

We revised the evolution of state of the art of environmental assessment in Spain. After 25 years the situation is complex, passing from a non-evaluation scenario to an over-evaluated one.

The review of EIA legislation in Zambia

Wizaso Munthali

This paper gives an account of the EIA legislative review process executed by the ECZ, focusing on the methodology, successes and challenges experienced.

EIA legislation development: A comparative study

Arend Kolhoff, Peter Driesen, Hens Runhaar

EIA legislation developed through donors is often too ambitious, underestimating context and capacities. A comparative study in Ghana, Georgia and Yemen provides lessons to establish more effective EIA systems.

Environmental compliance: Theory and practice

Thursday, 2 June | 16:30-18:00 | Luz A

Convener(s): *Simon Marsden*

Format: *Paper session*

IAIA Section: *EIA Law, Policy and Practice*

This session examines the importance of environmental compliance in ensuring effective EIA practice. From the incorporation of environmental principles into EIA legislation, through the development of permitting requirements and the application of enforcement tools and penalties, experience from Australia, South Africa, the Middle East and elsewhere is analysed.

Principles for effective impact assessment

Angus Morrison-Saunders

What makes an impact assessment process effective with respect to underlying legal and other principles? Ten impact assessment principles are explained using examples from EIA practice in Western Australia.

Sustainable development through better permitting

Sandra Burns, Camille Heaton

Recent improvements to environmental management and permitting in Abu Dhabi—including guidance for the preparation of EIAs and other environmental studies—are resulting in increased sustainable development.

Environmental control officers and EA compliance

Jan-Albert Wessels, Francois Retief

This paper explores the emergence and contribution of environmental control officers (ECOs) to post decision compliance and monitoring within the South African context.

Application of fines for environmental offences

Juan David Mora

Monetary penalties (fines) are the most widespread administrative environmental enforcement instrument, intended both to punish non-compliance and prevent its future re-occurrence. This paper provides criteria to determine these administrative fines.

Assessment guidelines: Oil and gas exploration

Juan Carlos Monckeberg, Carmen Rivera

An Environmental Assessment Guidelines for Oil and Gas Projects was prepared. Proponents can enter the required information for EIA online, improving the effectiveness and efficiency of the EIA process.

EIA Systems and Regulations

Transboundary EIA: A Latin American approach?

Thursday, 2 June | 14:30-16:00 | Oriental I

Convener(s): *Simon Marsden*

Format: *Workshop*

IAIA Section: *EIA Law, Policy and Practice*

This workshop analyses experience in North America, Europe and Australia to set the scene for a discussion of Latin American perspectives, specifically the ICJ Pulp Mills on the River Uruguay decision, and the potential application of transboundary EIA in the Gulf of Mexico following the Deepwater Horizon spill.

The Environment, NAFTA, and TEIA in North America

Bill Kennedy

This paper looks at the All-American canal on the US-Mexican border on which an EIA was conducted in compliance with NEPA but which did not adequately address cross border concerns.

Effective implementation of the Espoo Convention

Mari Koyano

This paper examines the issue of how to ensure the effective implementation of a transboundary EIA through a case study of the Danube Delta controversy under the Espoo Convention.

Reform of Australia's offshore oil and gas sector

Simon Marsden

In the light of the 2009 Montara offshore oil spill, and 2010 Commission of Inquiry Report, this paper analyses compliance of Australia's offshore industry with international obligations for transboundary EIA.

EIA mapping workshop

Wednesday, 1 June | 11:00-12:30 | Violeta II

Convener(s): *Bobbi Schijf, Reinoud Post*

Format: *Workshop, with two presentations followed by demonstration of the EIA mapping tool in small groups, Q&A*

The Netherlands Commission for Environmental Assessment (NCEA) has developed a participative tool called "EIA mapping," which gives insight into performance of a countries EIA system. In this workshop, we introduce the tool, demonstrate how it works (in small groups), and share the results of EIA mapping in Pakistan.

EIA mapping: How does it work?

Bobbi Schijf, Reinoud Post

This paper introduces the EIA mapping tool, gives some background to its development, an overview of its applications, and detailed instructions on how to apply the tool.

EIA mapping: Identifying priorities for Pakistan

Ahmad Saeed

EIA mapping tool was effectively applied in all provinces and territories of Pakistan to identify priorities for EIA strengthening in the country.

The power of peer pressure: tools for benchmarking IA systems

Tuesday, 31 May | 14:30-16:00 | Constancia

Convener(s): *Weston Fisher, Reinoud Post*

Format: *Paper session*

Different ways of benchmarking (parts of) IA systems will be presented. Presentations cover mechanisms to compare impact assessment regulations and the effectiveness of agency environmental mitigation and monitoring across countries, as well as more normative tools that allow countries to track their progress towards more effective EIA processes.

Developing an evaluation tool: EIA-climate change

Vong Sok

Building on existing EIA evaluation frameworks and results of a 2010 survey of IAIA member perspectives, this paper presents an EIA-climate change integration evaluation tool that was developed to examine progress in Southeast Asia.

Organizational Learning in EIA Agencies in Quebec

Luis E. Sánchez, Pierre André

This paper presents a tool to measure internal learning systems of EIA agencies and of results of application of the tool in Quebec.

Demonstration by Bobbi Schijf and Anne Hardon

Presentation of EIA profiles, tabular description of EIA systems and a basis for EIA system comparison.

Energy

Sustainable practices applicable to renewable energy

Thursday, 2 June | 11:00-12:30 | Luz B

Convener(s): *Pamela Gunther*

Format: *Paper session*

IAIA Section: *Energy*

This session identifies sustainable practices for renewable energy including experience in how these practices develop partnerships and promote renewable energy to help the overall green economy. We describe the types of public policy, regulations, and potential additional costs considered in promoting renewable energy in a long-term sustainable environmentally friendly manner.

ESIAs to diversify CEMEX's fuel supply in the UK

Susan Evans, Steve Smith, Neville Roberts

Cement-making is energy-intensive. Golder has assisted CEMEX, founded in Mexico in 1906 and now a leading global manufacturing company, in undertaking ESIs and securing necessary permissions to produce alternative fuels.

Best practices in small hydro development

Matt Hammond

Small hydroelectric developments in British Columbia, Canada, are applying environmental and social best practices to sustainably use this renewable resource. Best practices are being identified to address common key issues.

Mutual responsibilities: Renewable energy planning

Kanlaya Naklungka, Buddhina Nuntavorakarn, Thunyaporn Surapakdee

EGAT Renewable Energy Plan is an impact assessment study. We found that mutual responsibility between government and the public sector is essential in enabling renewable technology that is really appropriate.

EIA and hydropower: Practical cases for sustainability

Friday, 3 June | 09:00-10:30 | Luz B

Convener(s): *Emmanuel Gómez*

Format: *Paper session*

Practical cases of hydroelectric sustainable planning development; specific studies that demonstrate future projects environmental viability; a tool for EIA; and a new way for social compensation impacts in Mexico, the analysis considering the discussion about hydropower as a renewable energy.

Hydropower: Towards renewable Energy in Mexico

Humberto Marengo Mogollón

Renewable energies in Mexico depend on the development of hydroelectric projects. Comision Federal Electricidad must demonstrate that its projects are sustainable and go according with national regulations and international standards.

Concurrent sessions

Energy

The CFE hydropower sustainability process

Oscar Calahorra, Lidia Vazquez, Gabriela Aguirre, Horacio Rodríguez, Carlos Lecanda, Humberto Marengo

CFE currently is reviewing its processes and analyzing the appropriateness of adopting "The Hydropower Sustainability Assessment Protocol" as a tool to assess and demonstrate the sustainability of future hydropower projects.

Mangrove ecosystem EIA for a hydroelectric project

Évert Hernández López, Rosa Dina Llerandi Juárez

Accurate environmental diagnostics allows understanding ecosystems functioning and properly assess the potential environmental impacts caused by hydroelectric projects construction and operation.

Application of Bayesian Networks in EIA of dams

Hossein Moradi, Mojgan Farhadian

Based on the advantages of BNs, they are a suitable tool for EIA. Here we assessed the environmental impacts of a dam and hydropower plant by Netica software.

Hydropower and economic benefits for populations

Emmanuel Gómez, Ana M. Gomez, Carlos Lecanda

This paper analyzes the requirements for carrying out the economic benefits proposals in hydropower, the barriers that must be overcome and the estimated economic benefit that might represent.

EIA and transmission lines siting

Wednesday, 1 June | 16:30-18:00 | Luz B

Convener(s): Rocio Diaz-Chavez

Format: Paper session

This session identifies environmental, social and cultural issues regarding siting electrical infrastructure. The presentations range from impacts on biodiversity and human communities to the methodological considerations such as multi-step process and community participation.

Potential impacts on flamingos, Bolivia

Genevieve Beaulac

This paper presents the methodology taken by the IDB to assess impacts on three species of flamingos present in the project area of a prospective geothermal plant and transmission line.

Supporting electric transmission siting decisions

Mary Beard Deming, Anne McAulay, Hoorik Davoudian-Telle

Siting electrical infrastructure is a complex process for decision-makers. Quantitative and qualitative decision-support tools for data collection and alternatives analysis will be described, illustrated with specific infrastructure projects, and evaluated.

Electric system and social responsibility

César Fuentes

Comisión Federal de Electricidad has social-environmental responsibility and therefore for selecting sites for electrical substations and transmission lines develops studies and actions for preventing effects on biodiversity, people and heritage.

Considering community participation and land use issues associated with renewable energy

Wednesday, 1 June | 14:30-16:00 | Alto B

Convener(s): Rocio Díaz-Chávez, Jong-Gwan Jung

Format: Paper session

IAIA Section: Energy

The session considers policy implications of the assessment of impacts regarding GHG and land use with different renewable energy from bioenergy to solar and wind.

Evaluating method on CO2 reduction by residents

Masaru Ito

The analysis can estimate CO2 emission from residents and evaluate life-style change. Expanding this method, the total CO2 from citizens are calculated and assess the policy of CO2 reduction.

Bioenergy feedstock and environmental impacts

Ulla Mörtberg, Mårten Karlson

Plans for energy systems based on bioenergy implies increased pressure on forest and agricultural land. This will lead to cumulative environmental impacts that need methods for strategic environmental assessment.

Environmental considerations in the siting of solar plants

Young Han Kwon, Ji Young Kim

The most desirable sites for solar plants are developed areas or open spaces, whereas those for wind power plants are limited. Environmental issues regarding sites should be considered strategically.

EIA case study of wind power plant in Korea

Sangbum Lee

The development paradigm should be sought from inland development to off-shore development because of the limited site suitability of mountainous area to build a wind power plant in Korea.

Notes

Environmental Practice and Governance in Latin America and the Caribbean

Governance determines environmental practices

Thursday, 2 June | 16:30-18:00 | Violeta I

Convener(s): Wayne Chaman Huggins

Format: Workshop

This workshop examines whether governance dictates environmental practices in the informal and formal economy. Underlying drivers for responsible development and to whom, would be explored in the context of infrastructure—basic need for squatter communities, alternative energy investment for industry and businesses and state of environmental audits.

Governance and urban poor's environmental practice

Wayne Chaman Huggins

This paper explores the inevitable environmental consequences when governments engage in urban exclusion and ignore needs of urban poor families in accessing clean water, sanitation and opportunities for micro-enterprises.

Local economy and the global environment

Jaime Martínez-García, Laura Andrea Briones-Sarmiento, Jorge Jessiel Padrón-Ramírez

This paper analyses the existent relationship between local economic activities and global environmental problems. It is focused on the social economic and political effects of construction industry on agenda

Evolution of the environmental audit in Mexico

Pedro Murad

This paper explores the institutional, legal, social, economic and political risks and challenges faced in the evolution of Mexico's Environmental Audit under NAFTA to achieve compliance with Clean Industry Certification.

Foundations of Impact Assessment

A visit to the orphanage of impact assessment

Thursday, 2 June | 11:00-12:30 | Esperanza

Convener(s): Jos Arts, Francois Retief

Format: Panel discussion

The purpose of this session is to re-introduce and re-emphasize key issues in impact assessment which seem to have been neglected over time. The observation is that IAIA seems to only focus on the "new kids on the block." Concepts such as screening, scoping, follow-up, tiering, etc., are hardly discussed at conferences anymore. Are these "orphans" mere concepts of "yesteryEAR" or do they deserve a welcome home?

Panelists

Jos Arts, Francois Retief, Bill Ross, Johan Nel, Angus Morrison-Saunders

Ask the experts: Foundations of impact assessment

Thursday, 2 June | 14:30-16:00 | Esperanza

Convener(s): Francois Retief, Jos Arts, Angus Morrison-Saunders, Ana Maria Esteves

Format: Presentations/Workshop/Q&A

This session is aimed at entry-level practitioners and new members. Seasoned experts will cover the basics of Impact Assessment.

Introduction

Francois Retief

Screening and scoping

Bill Ross

Scoping social and health impacts and public involvement

Nick Taylor

Baseline and prediction of impacts

Richard Morgan

Mitigation of residual impacts, enhancement strategies and follow-up

Angus Morrison-Saunders, Francois Retief

Agreements between companies and communities: What do they mean for impact assessment?

Wednesday, 1 June | 11:00-12:30 | Oriental II

Convener(s): Martin Haefele, Murray Jones, Ana Maria Esteves, Daniel Franks

Format: Workshop

This workshop session complements the theme forum with the same title. Participants will discuss issues such as the implications of FPIC for IA, how IA practice and agreement-making can inform each other, and what should be the guiding principles for agreement-making between developers and Indigenous peoples.

Participants will divide into groups and select one of the following discussion topics:

1. How should the principles of FPIC be applied in impact assessment practice?
2. How can IA practice inform agreements and how can agreements inform IA?
3. What guiding principles for agreement-making between developers and Indigenous peoples are important to include in the Guidelines for Involving Indigenous peoples in Impact Assessment?

A mind mapping method will be used to brainstorm and organise the information in a highly interactive manner. Participants will use index cards to record and arrange their contribution on blank walls. The note-takers will record the result on a mind map that will be shared with participants at the end of conference. One of the key outcomes of the workshop—if it emerges as an important issue—will be the adaptation of IAIA's Indigenous Peoples Section's draft Guidelines for Involving Indigenous Peoples in Impact Assessment to take into account agreement-making considerations.

General Aspects of EIA and SEA

General aspects of EIA and SEA I

Tuesday, 31 May | 16:30-18:00 | Oriental II

Convener(s): Adam Barker

Format: Paper session

This session focuses on a wide range of themes relating to EIA and SEA in terms of process, practice, case studies and contextual aspects.

SEA Experiences in Ghana: Processes and Lessons

Ebenezer Appah-Sampong, Christine Asare, Jonathan Allotey

This paper presents SEA experiences in Ghana spanning a period of over 10 years and covers the rational, processes adopted, outputs, outcomes and lessons to guide future SEAs.

SEA Tourism development model for the Baru Island

Rodrigo Jiliberto

SEA for the development of a sustainable tourism model for the Baru Island, near to Cartagena de Indias, Colombia. Strategic spatial analysis, systemic integrated diagnosis of tourist development, communities, governmental participation.

Quintana Roo an Example of the EIA Inefficiency

Manuel Murad, Eduardo Rubio

Moving from EIA to SEA in planning in Mexico.

A study of environmental indicators use in SEA

David Pereira, Juan José Oñate, Juan José Rodríguez, Macarena Herrera

A study of the use of environmental monitoring indicators in top level strategic planning and SEA process in Spain. Methodological conclusions are provided to strengthen this relationship.

Strategic impact assessments and disasters

Charles Kelly

Failure to assess recovery impacts leads to environmental damage and hardship for disaster survivors. The paper explores how strategic impact assessment can be integrated into post-disaster assessment and planning.



QVGA is a consulting firm specializing in environmental management, with experience in design and implementation of EIA, forestry studies, environmental risk, public participation, capacity building and environmental legal advisory.

QVGA has a long history of projects in different sectors such as touristic developments, roads, dams, water infrastructure, waste, mining and real estate developments, many of them environmental and socially complex, that we have successfully resolved through inclusive social participation processes and environmental commitments compatible with the economic expectations of the project.

contacto@qvga.com.mx

Concurrent sessions

General Aspects of EIA and SEA

General aspects of EIA and SEA II

Wednesday, 1 June | 16:30-18:00 | Violeta I

Convener(s): Carys Jones

Format: Paper session

This session focuses on a wide range of themes relating to EIA and SEA in terms of process, practice, case studies and contextual aspects.

Social impacts of recreation resource demand

Hobson Bryan, Nick Taylor

This social impact assessment (SIA) of changes in supply and quality of outdoor recreation focuses on comparing the cases of trout fishing in the United States and New Zealand.

Is quiet the new loud? The economic value of quiet

Liz Clarke, Petrina Rowcroft, Abigail Bristow, Chris Skinner, Paul Shields

Is quiet the new loud? Towards the development of a methodology for estimating the economic value of quiet and quiet areas.

Expert Systems for EIA: Past, Present and Future

Mark G. Hodges, James Rautner

Past, present decision support and expert systems for EIA are reviewed. A proposed expert system, based on past work, technological advancements, and current and future needs for EIA is presented.

Cumulative effects assessment at the National Energy Board

Kent Lien

The National Energy Board of Canada (NEB) regulates hydrocarbon transmission pipelines under federal jurisdiction. This paper will discuss the NEB's pragmatic approach to cumulative environmental effects assessment.

General aspects of EIA and SEA III

Thursday, 2 June | 14:30-16:00 | Alto A

Convener(s): Carys Jones

Format: Paper session

This session focuses on a wide range of themes relating to EIA and SEA in terms of process, practice, case studies and contextual aspects.

Impact of nature and cultural tourism in Tua Vale

João Joana de Melo, José Veiga Simão

Nature- and culture-based touristic development can create 11 times more jobs per million Euros invested than the construction of the dam.

EIA of a canal: Decision review for biodiversity

Asha Rajvanshi, Roshni Arora

The implications of constructing animal-friendly bridges across canal proposed through a wildlife sanctuary are weighed against other strategies that can secure improvement in functionality and better integration of habitats.

Perception of environmental offset as mitigation measure

Prince Mmom, Israel Owate, Moses Baridoma

Environmental offset is a veritable tool for mitigating residual impacts of development on the environment. However, there is variation in perception and adoption among practitioners and stakeholders in Nigeria.

Tiering SEA and EIA in Dutch infrastructure practice

Luis Martins Dias, Jos Arts

Dutch infrastructure case studies apply tiering of SEA (alternatives' comparison, qualitative and simple), EIA (one alternative, juridical testing) and EIA follow-up (national monitoring programmes) in order to overcome planning deadlock.

World Bank: SEA case studies from Africa

Alexandra Bezeredi, Cary Anne Cadman

The session will focus on the use of SEAs across growth sectors in Africa to promote best practice in the application of SEAs as a strategic development tool.

General aspects of EIA and SEA IV

Thursday, 2 June | 16:30-18:00 | Oriental II

Convener(s): María Antonieta Gómez-Balandra

Format: Paper session

This session focuses on a wide range of themes relating to EIA and SEA in terms of process, practice, case studies and contextual aspects.

Environmental assessment: The new institution

Ignacio Toro, Bolívar Ruiz, Oscar Parra, Juan Carlos Monckeberg

This article analyses modifications to Law 19300 related to EIA and the opportunities they present to Chile. Main challenges and the way to address them are identified considering international experience.

Interdisciplinarity on complex SES in Mexico

Marco Gutierrez Gonzalez, Romina Martinez Velarde, Javier Clausen Silva, Paulina Barreto Heredia, Margarita Gutierrez Vizcaino, Kachadourian Marras

Cultural challenges are faced when implementing interdisciplinary approaches among expert groups assessing impacts for complex SES and projects. Mutual learning and communication agreements are discussed based on diverse Mexican cases.

Evaluating pro-project bias in EIA

Carys Jones, Chris Garratt, Adam Barker

Pro-project bias is an issue, but is not considered a major problem by all practitioners; however, decision-makers are not confident of the objectivity of ESs.

The Mexican Connection

Charlie Wolf

The paper sketches (1) the impact history of the host community and country; (2) impact tourism opportunities for direct personal experience; (3) assessments of these situations by impact assessment practitioners.

General aspects of EIA and SEA V

Friday, 3 June | 11:00-12:30 | Oriental II

Convener(s): María Antonieta Gómez Balandra

Format: Paper session

This session focuses on a wide range of themes relating to EIA and SEA in terms of process, practice, case studies and contextual aspects.

Payments for ecosystem services: Managing impacts

Liz Clarke, Petrina Rowcroft, Steve Smith

Can payments for ecosystem services provide a cost-effective approach for the prevention of adverse impacts on ecosystems, remediation and ecological enhancement? What are the barriers and opportunities to their use?

Developing IBIA: Legal and administrative issues

John Fry, Berna Grist, Tamara Hochstasser, Peter Carvill

A review of EU legal biodiversity impact assessment requirements in support of the development of an integrated biodiversity impact assessment methodology.

Ecosystem assessment: Survey and applications

Myungjin Kim, Jiyeon Kim, Taeyoung Choi, Taekyu Kim, Kohong Song

Ecosystem assessment is an application of EIA of growing importance in Korea. Its applications can contribute to efforts both to enhance environmental quality and to facilitate the transition to sustainability.

Several activities for ecosystem impact assessment

Myungjin Kim

Ecosystem assessment in environmental impact assessment (EIA) takes an important role in Korea. Several activities for ecosystem impact assessment are conducted.

Health

Health in impact assessment

Tuesday, 31 May | 14:30-16:00 | Alto B

Convener(s): *Francesca Viliani*

Format: *Paper session*

IAIA Section: *Health*

Health and wellbeing are routinely included in different kinds of impact assessments; however, these concepts are not always well covered and properly investigated. This session introduces the debate and presents experiences regarding the inclusion of health in Impact Assessment

Integrating health and SEA into tertiary training

Julia Nowacki, Marco Martuzzi

Results of a research on health and EIA/SEA trainings will be presented and the outline of a health in IA train the trainers course will be discussed.

Mainstreaming HIV into EIAs for capital projects

Bryony Walmsley, Benjamin Ofosu-Koranteng

A UNDP programme is investigating ways in which to incorporate HIV into EIAs for large capital projects in eastern and southern Africa. The results and recommendations will be presented.

Engagement and HIA: Case study from Guinea

Mark Divall, Mirko Winkler

Engagement with the Ministry of Health to facilitate the HIA process is important. The presentation will outline the success of an engagement strategy to support a HIA in Guinea.

Cities and city regions: Health, environment, society and sustainability

Wednesday, 1 June | 16:30-18:00 | Alto A

Convener(s): *Ben Cave*

Format: *Paper session*

This session will look at four examples whereby development of, and in, city regions aims to protect health and wellbeing. We will look at recent developments in noise and health; at health in EIA, at systems for monitoring effects, and at a case study from Tehran.

Local government, health and major project EA

Patrick Harris, Harrison Ng-Chok, Ben Harris-Roxas, Marilyn Wise, Elizabeth Harris, Lynn Kemp

We audited who has provided input to EAs in across five year period in a sub-region of Sydney. Local government was the principle agency, with implications for influencing EA's health content.

Sustainability-based urban regeneration in Tehran

Soleiman Pakseresht, Mohammad Fazeli

Based on a case study of a regeneration project in Tehran, the article will discuss the main requirements of a sustainability-led regeneration strategy for Tehran city.

Strategic-level assessment of transport noise

Lex Brown

Routinely included in project-level EIA, new guidance for quantitative risk assessment of health impacts of transport noise now allows its consideration at strategic levels-regional/national transport planning and policy assessment.

Advanced Monitoring-Based Corrective Action (MBCA)

Giuseppe Magro, Stefano Scarpanti, Jenny Dolfini

MBCA as an integrated monitoring informative system for armonizing measures and modeling performances, connecting and selecting driver variables for orienting decisions.

Impact Assessment: Its Influence in Decision Making

The state of the art of sustainability planning and assessment I

Wednesday, 1 June | 14:30-16:00 | Constancia

Convener(s): *Jenny Pope*

Format: *Paper session*

Cutting-edge theory and applications of sustainability planning and assessment are explored based on experience around the world. The emphasis is on moving from theory to practice including application of effective techniques and engagement of stakeholders. Facilitated audience discussion will follow presentation of papers.

EIA contributions to sustainability

Ana Cravo, Maria Rosário Partidário

EIA is a powerful environmental assessment tool in transitioning processes towards sustainability. An innovative framework that highlights practical contributions of EIA is presented.

Sustainability assessment of sugarcane ethanol

Tadeu Fabricio Malheiros, Carla Grigoletto Duarte, Robert B. Gibson, Kyrke Gaudreau, Evandro Mateus Moretto, Joviniano Pereira da Silva Netto

This paper describes a specified application of the sustainability assessment framework developed by Gibson et al. (2005) to assess a proposed sugarcane ethanol mill in São Paulo state, Brazil.

Vulnerability maps: A useful tool for ESIA

Emiliano Azcona, Fabian Palmada

Oil and gas pipelines ESIA needs to identify the RoW sectors where the impacts will be more important according to the social and environmental local context, to design and implement better ESMPs.

Assessing significance of impacts

Claire Gronow

EIA gives rise to sustainable decision making only where the scale and nature of impacts are clearly set out. Current approaches are examined and a new approach is proposed.

The state of the art of sustainability planning and assessment II

Wednesday, 1 June | 16:30-18:00 | Constancia

Convener(s): *Angus Morrison-Saunders*

Format: *Paper session*

Responsible hydropower development approach

Risa Morimoto

This study provides an effective project evaluation method that enables decision makers to identify a sustainable balance between economic growth facilitated by hydropower and socio environmental objectives.

Ecosystem approach in the EIA of Paso de Reyna Dam

Martin Quijano, Grethel Villicana, Carlos Lecanda, Rosadina Llerandi

We constructed a model of regional ecosystem functioning for the EIA of the project, integrating the principles of the SAE in the current evaluation process in Mexico.

Impact assessment for sustainable urban planning

Ainhoa Gonzalez, Alison Donnelly, Mike Jones

Developing and applying an impact assessment model based on urban metabolism components to assess the sustainability of planning alternatives.

Stakeholder networks and impact assessment

Friday, 3 June | 09:00-10:30 | Luz A

Convener(s): *Ilse Aucamp, John Devlin*

Format: *Paper session*

IAIA Section: *SIA*

This session introduces stakeholder network analysis as a dynamic and useful component of impact assessment. The session explores the use of social network analysis for understanding the socio-political complexities in development projects. Challenges in countries where social interaction as part of the IA process is emerging will be discussed and best practice examples will be shared.

Stakeholder networks and impact assessment

Robert Boutillier, Sara Bice, Leeora Black

Introduction to stakeholder network analysis in SIA. Case studies from Australia and Latin America illustrate how it reveals the socio-political complexities that emerge when project proponents meet politically active stakeholders.

Making stakeholder networks visible

Kimmo Jalava, Lotta Jaakkola, Pekka Hokkanen, Markku Kuitunen

The paper discusses the possibilities and challenges in design of EIA stakeholder-driven internet platform and reports the results of a design-supportive survey targeted at different stakeholder groups.

Do you know who I am?

Ilse Aucamp

Stakeholder analysis should form part of every impact assessment. It is a tool that assists in understanding the complex working of communities.

Iranian social impact assessors and responsible development

Fardin Alikhah

What are the Iranian social impact assessor's interpretations towards responsible development and how can SIA can help fulfill them?

Research for policy impact assessment: Examples from the Americas

Thursday, 2 June | 16:30-18:00 | Oriental I

Convener(s): Aranka Podhora

Format: Paper session

Several countries apply ex-ante policy impact assessment with a view to environmental protection or sustainable development. The session covers tools and methods that analyze the effects of these policies, sheds light into political challenges that limit the implementation of the results, and describes specific case studies from Latin America.

Legal and guidance advances for SEA in Brazil

Maria Partidário, Izabella Teixeira

SEA is evolving in Brazil towards more constructive, sustainability-oriented and integrated approaches. This paper shares current SEA advances in Brazil with the SEA international community.

Integrated Impact Assessment using SIAT

Stefan Sieber, Klaus Müller, KarenTscherning, Dirk Pohle, Katharina Fricke

SIAT provides the means to improve model-based integrated IA studies. Policy simulations in the frame of European agricultural policy run spatially-explicit trade-offs analysis. Tests on transferability to Latin-America were successful.

Impact assessment of ICT policy in Brazil

Giancarlo Stefanuto, Sergio LuizSalles-Filho, Carolina Mattos, Camila Zeitoum, Fernando Colugnati

This paper summarizes results and impacts of the assessment of the Information and Communication Technologies (ICT) Law in Brazil between 1998 and 2008 and proposes improvements for this Law.

Experience of the social development valuation

Pablo Yanes, Myriam Cardozo

EvalúaDF is creating a methodology document where feasibility is reviewed in our context as well as the advantages and disadvantages of the different methods that are available.

Evaluation of biodiversity research program

Camila Zeitoum, Paula Castro, SergioSalles-Filho, Fabio Sá, Fernando Colugnati

This paper presents and discusses the outputs and outcomes arising from this biodiversity research program.

EIA success cases I

Tuesday, 31 May | 14:30-16:00 | Luz A

Convener(s): Luis E. Sánchez, Miguel Coutinho

Format: Paper session

What is an EIA success case? How does EIA add value to decision-making? How can we collect and use them to promote EIA? This session is expected to stimulate a debate among impact assessment professionals about how to show the relevance of EIA to stakeholders.

From economic to holistic focus: An EIA success

Deborah Donkin, Guy Butler

Through an EIA, an economically driven development in a sensitive environment, evolved into a holistic vision, promoting economic and social needs while significantly protecting vast tracts of ecologically sensitive habitats.

Cuyutlán railroad in Manzanillo: A success case

Sergio López Noriega, Norma Fernández Bucos

Cuyutlan lagoon railroad in Manzanillo, Mexico; a success case in a win-win relationship between modernization, development and environment.

Residual impacts of offshore exploration drilling

Fabián Palmada, Emimiliano Azcona

Very detailed ESIA's and management plans have to be developed to avoid impacts on sensitive marine areas. This case study comprises the ESMP implementation and the results obtained.

EIA success cases II

Tuesday, 31 May | 16:30-18:00 | Luz A

Convener(s): Miguel Coutinho

Format: Paper session

What is an EIA success case? How does EIA add value to decision-making? How can we collect and use them to promote EIA? This session is expected to stimulate a debate among impact assessment professionals about how to show the relevance of EIA to stakeholders.

Socio-economic impacts of military-induced growth

Paul Sage, Amber Guillory, David Kiernan

This presentation will outline the study approach, processes used and findings of a Socioeconomic Impact Assessment Study (SIAS) conducted on the military-induced population growth on the US Territory of Guam.

EIA achieves environmentally friendly golf courses

Iñigo Sobrini, David Gomez, David Becerra, Juan J. Abaitua

Tres Cantos is a new environmentally friendly golf course next to Madrid-Spain, with positive EIS by means of introducing great changes in initial project size, elements' location and course design.

EIA successful cases: Comisión Federal Electricidad

Guillermo Zúñiga-Gutiérrez, Francisco Hernández-Alvarez

Several successful EIA cases developed by Comisión Federal de Electricidad that help protect ecosystems and people, prevent potential conflicts, and obtain authorizations.

Environmental and social impact assessment as if management matters

Thursday, 2 June | 11:00-12:30 | Constancia

Convener(s): Tim Hart, Frank Vanclay

Format: Paper session

Management plans are a recognised outcome of the Environmental and Social Impact Assessment (ESIA) process. Effective plans should flow from robust assessment and rigorous consultation, but results are often disappointing. Through international case studies and open discussion this session will capture and document lessons for ESIA where management truly matters.

Delivering on environmental commitments

Claire Gronow

This presentation will show how successful environmental management commences in the EIA process using a case study of a sensitive project delivered in full compliance.

JICA's EIA capacity development in East Timor

Kanji Usui

Analysis of the JICA's EIA capacity development program in East Timor under post-conflict situation.

Social assessment and responsible decision-making

Andrea Jardine-Orr

A social assessment and management plan can provide a way for government to manage the potential social impacts of industrial development.

EIA implementation and its linkage to project EMS

Behzad Raissiyan

How can EIA practitioners facilitate and influence EIA implementation and follow up in mega oil development projects? Initiatives to improve linkage between EIA and EMS.

Follow up the EIA in Veracruz, Mexico

Beatriz Silva-Torres, Miguel Castillo-González, Cristhian Soto Mote

Based in model KSIM, characteristics and performance of water, soil, vegetation and air were predicted. This prognosis was made under two conditions, and two evaluations were carried out in 2006 and 2010.

Oil and Development

How can we make the oil and gas industry environmentally responsible?

Wednesday, 1 June | 16:30-18:00 | Auditorium

Convener(s): Peter Tarr, Bryony Walmsley

Format: Workshop

Using practical examples from recently completed SEAs in the oil and gas sector, the facilitators will describe how an SEA process can determine sustainability criteria, and how it can identify cumulative, synergistic and antagonistic effects and how to develop strategic environmental management plans relevant for a greener oil and gas sector.

Country experiences with oil industries and the environment

Wednesday, 1 June | 11:00-12:30 | Luz B

Chair: Solveig Andresen

Format: Paper session

This session is for country experiences, and some of the speakers are from the group of people receiving capacity building support from the Oil for Development program to attend IAIA11. Each will present a set of issues and problems based on their own national experience, but relevant for the whole audience.

Oil and gas and the environment in Trinidad and Tobago

Cindy Chandool

The EIA experience within the oil and gas industry in Trinidad and Tobago is examined to identify benefits and challenges in order to facilitate the attainment of environmentally responsible development.

Early experiences of SEA in the oil and gas sector

Tuesday, 31 May | 14:30-16:00 | Oriental II

Convener(s): Terje Lind, Ineke Steinhauer

Format: Paper session

This session is to share ideas and report on first experiences from the Norwegian Oil for Development program and the Netherlands Commission on environmental Assessment in Ghana, Uganda, Mauritania, Bolivia and the West African region. Presenters will share their experiences from governmental, NGO and consultant's perspective.

Initial experience in SEA of oil and gas in Ghana

Jonathan Allotey, Ebenezer Appah-Sampong, Christine Asare, Kwabena Badu-Yeboah

Ghana has initiated an SEA of the oil and gas sector. This paper primarily explores the basis for the SEA, approaches, the expected outcomes, experiences and lessons for future SEAs.

SEA of Mauritania oil and gas sector: Lesson Learned

Marcello Iocca, Miles Scott-Brown

Weak institutional structures and lack of local competence pose major challenges for Mauritania to effectively manage rapid growth of hydrocarbon sector. Recommendations summarize institutional, environmental and social SEA strategic options.

Using SEA in the oil and gas sector in West Africa

Arona Soumare

Using SEA to promote environmentally responsible off shore oil and gas development in West Africa. Process, lessons learned and challenges.

Oil exploration in sensitive ecosystems

Justine Namara

Oil exploration in Uganda is taking place in sensitive ecosystems. Government is putting in place measures to minimise impacts including EIA, SEA and sensitivity atlas and ensure co-existence.

SEA in two regions with hydrocarbon potential in Bolivia

Lourdes Calla

The Ministry of Hydrocarbons and Energy is applying SEA in the North of La Paz department where there are two protected areas, Madidi and Pilon Lajas, and in Aguargüe National Park, in Southern Bolivia.

Oil for Development role-playing session I

Thursday, 2 June | 14:30-16:00 | Violeta II

Convener(s): Richard Fuggle

Format: Workshop

This is an awareness and capacity building workshop demonstrating to the participants the complex issues of reaching agreement of the scope of an IA when opposite interests are involved. The session builds on the experiences gained at a special Oil for Development session held at IAIA09 in Ghana.

Oil for Development role-playing session II

Thursday, 2 June | 16:30-18:00 | Violeta II

Convener(s): Richard Fuggle

Format: Workshop

This is a direct continuation to the Oil for Development role-playing session I. This is an awareness and capacity building workshop demonstrating to the participants the complex issues of reaching agreement of the scope of an IA when opposite interests are involved. The session builds on the experiences gained at a special Oil for Development session held at IAIA09 in Ghana.

Environmental and socio-economic assessment and management in the oil and gas sector

Wednesday, 1 June | 14:30-18:00 | Violeta I

Convener(s): Ana Maria Esteves

Format: Paper session

This session explores how IA can guide strategies for local procurement. Participants will be encouraged to think critically about how to predict, manage and monitor the social impacts of procurement interventions at community level. Presentations and group discussions will cover themes such as perspectives on lessons learnt to date, what is "good practice" assessment for community participation in the supply chain, and legal and institutional requirements: what does an "enabling environment" look like?

Environmental degradation and involuntary migration in the Niger Delta

Prince Mmom, Nene Jamabo

Oil exploitation has resulted in environmental degradation and involuntary migration and population displacement in the Niger Delta. This has thus posed a threat to socio-political cohesion in the region.

Wet meadow management for oil pipeline projects

Sükran Sahin, Ekrem Kurum, Halim Perçin

This paper is concentrated on the Zamanti River crossing of the Baku-Tbilisi-Ceyhan Crude Oil Pipeline Project and its wet meadow management activities for the protection of sensitive landscape.

Pre-salt oil and its contribution to sustainable development in Brazil

Cristiano Vilardo, Alexandre Campos

This paper evaluates how much the new regulatory framework for pre-salt exploration and the current impact assessment framework are able to contribute to sustainable development in Brazil.

Sustaining public participation over time

Wednesday, 1 June | 11:00-12:30 | Oriental I

Convener(s): John F. Devlin

Format: Paper session

IAIA Section: Public Participation

The scale of large infrastructure projects often means many years of planning before the actual construction commences. Early engagement with the community is crucial to ensure fair, free and informed participation. However, what happens when the project is suspended, deferred, or the approval process is extended? This session will present examples from Mexico, Chile, Quebec, and Australia.

Social and environmental impact aspects of La Yesca Hydroelectric Power Project

Jose Antonio Dehesa

The paper reviews social and environmental compensation and restitution claims arising during the La Yesca Hydroelectric Power Project project's operational phase.

Public participation in EIA: New challenges

Juan Pablo Armisen, Ignacio Toro, Juan Carlos Monckeberg

This article reviews the historical process of public participation in the environmental assessment system of Chile over the last 12 years and presents the challenges it currently faces.

Hydro-Quebec strategies for social acceptability

Benoit Gagnon

Hydro-Quebec's numerous hydropower and transmission projects demonstrate that sound project management, long-term local community relationships, and personal commitment of the environmental team are key strategies for social acceptability.

Trust in times of uncertainty

Rita Sully

This paper will present a situation where a project was deferred after an initial community engagement and the implications of this deferment in terms of community uncertainty, relationships, trust and transparency.

Public participation, value conflict, and the politics of impact assessment I

Wednesday, 1 June | 14:30-16:00 | Oriental I

Convener(s): John F. Devlin

Format: Paper session

IAIA Section: Public Participation

Projects continue to be designed, approved and implemented with economic valuations foremost while social and environmental values are given secondary or tertiary consideration. This is the first of two sessions presenting case studies highlighting how public participation challenges such outcomes and sometimes suggests alternatives. Case studies from India, Mexico, Quebec, and Suriname will be presented.

Public participation and public hearings in India

Nirmalya Choudhury

Public hearings in Indian hydropower and irrigation projects have often left many people dissatisfied and the environment vulnerable with the result that legality is achieved but legitimacy is not.

Public participation as a means of ESIA process

Grethel Villacaña, Martin Quijano

This paper discusses the effectiveness of the public participation process in Mexico from an environmental, legal and social perspective and asks if it serving the interest of stakeholders and the environment.

Modernizing and strengthening Cree participation

Kelly LeBlanc, Ginette Lajoie

This paper describes a project to revise the public participation process based on Cree involvement in recent development projects under the environmental assessment procedure in Quebec, Canada.

Politics and rights: Where does IA stand?

Sunrita Sarkar

This paper presents a case study of an ongoing stalemate between a mining project and indigenous people's group in Suriname which highlights how the lack of legislation can exacerbate conflict situations.

Public participation, value conflict, and the politics of impact assessment II

Wednesday, 1 June | 16:30-18:00 | Oriental I

Convener(s): Rita Sully

Format: Paper session

IAIA Section: Public Participation

Projects continue to be designed, approved and implemented with economic valuations foremost while social and environmental values are given secondary or tertiary consideration. This is the second of two sessions presenting case studies highlighting how public participation challenges such outcomes and sometimes suggests alternatives. Case studies from Hong Kong, Mexico, Canada, and Pakistan will be presented.

The role of NGOs in Hong Kong's EIA process

Cho Nam Ng

This paper examines the role and influence of Environmental NGOs in Hong Kong's EIA process, and discusses the key institutional, social and political factors which help determining the outcomes.

Technical-legal scope of public consultation

Arturo Pelaez

In Mexico public consultation requires stronger methodological or technical approaches to bring confidence to the process and reduce the scope for advertising scandal and stimulating street demonstrations.

Scoping to prioritize in Canada's NWT Mackenzie Valley

Alan Ehrlich

This talk explores participatory approaches to prioritizing issues in scoping, using methods borrowed from facilitation. A particularly successful result: Terms of Reference that explicitly assign issues to priority categories.

How can EIA help in resolving conflict?

Asadullah Faiz

The first modern engineered landfill proposal in Pakistan got stuck on issues raised by local communities regarding social impacts and resettlement. Could clear guidelines for focused public hearing help avoid this?

Public participation and EA follow-up

Thursday, 2 June | 11:00-12:30 | Violeta I

Convener(s): Rita Sully

Format: Paper session

IAIA Section: Public Participation

This session will discuss public participation in EA follow-up. Papers will consider both methodologies for more effective monitoring and management following project approvals and how public participation can shape and be shaped by ongoing processes of cooperation and conflict between proponents and communities. Cases will be presented from Canada, Cameroon, Ecuador, Brazil, and South Africa.

Monitoring, prediction, management of noise on VEC

Louis E. LaPierre

The BoomCast model provides a monitoring tool based on GIS mapping of data on the probability of exceeding noise thresholds identified as a noise disturbance to a valued environmental component.

EA follow-up in AfDB roads projects in Cameroon

Benjamin Tchoffo

This paper assesses the efficiency of EA follow-up in AfDB road projects in Cameroon and proposes recommendations to improve EA follow-up and AfDB environmental management in roads projects

Stakeholder alliances: contested rural development

Karen Buchanan

This paper explores the politics of a long-running socio-environmental mining conflict in north-west Ecuador discussing the often pivotal role of public participation in determining each proposed intervention's outcome.

Power, contention, and public participation in EA follow-up

John F. Devlin, Morgan Boyco, Denise Tubino

The paper argues that there is variation in the impact of public participation in EA follow-up because EA outcomes are influenced by variations in stakeholder power.

Public Participation

Notes

Social media and public participation in IA

Thursday, 2 June | 14:30-16:00 | Violeta I

Convener(s): John F. Devlin

Format: Workshop

IAIA Section: Public Participation

This session will consider how social media are being used to facilitate participation in environmental, social and health impact assessment. Two presentations introduce case studies on the use of social media in health campaigns and consultation programs. These presentations will be followed by an open discussion of how best to organize research on the use of social media among IAIA members and how to integrate social media into future IAIA programming.

Using social media to access HIA information in Thailand

Khanitta Seaiew

In Thailand the web is used to disseminate HIA information and to serve as a public forum, through a blog for all stakeholders to exchange lessons learned and share HIA information.

The risks of ignoring social media

Gwen Brice

This presentation considers the risks of not integrating social media into a proponent-driven consultation program for a power generation project and what can happen when the opposition fully embraces these tools.

Researching social media for IAIA

John F. Devlin

The paper presentations will be followed by an open discussion of how best to organize research on the use of social media among IAIA members and integrate social media into future IAIA programming.

Active worldwide

5,500 employees

Shared mission, values, and projects

Established in 1917

Consultancy and Engineering

NACO

Delcan

SSI
A DHV COMPANY

Concurrent sessions

Social Impact Assessment

Perspectives on development impact

Thursday, 2 June | 16:30-18:00 | Alto B

Convener(s): *Melissa Wells*

Format: *Paper session*

This session will examine the different perspectives of private companies and international aid agencies and consequences for impact assessment. Different priorities in terms of geographic reach, duration and effectiveness will be explored. Following several presentations, a discussion will center on identifying avenues for alignment to increase overall benefit creation.

Extractive industries and local development

Melissa Wells

Drawing on case studies of LNG in the Asia-Pacific region and mining in Papua New Guinea, this paper explores how impact assessment can be used to create local economic benefits.

From philanthropy to strategic investment

Liz Wall

The French mining company AREVA is moving from philanthropic donations to strategic social investment to better identify and realise the business case for its social contributions.

Impact assessment for aid projects in Vanuatu

Te Kipa Kepa Brian Morgan, Keri Yukich

Infrastructure project impacts are determined recognising the importance of cultural context. The Mauri Model Decision Making framework provides a new assessment methodology for culturally contextualised analysis of foreign aid projects.

Due diligence in public-private partnerships

Jeanne Ellis

This presentation will explore best practices in designing public-private partnerships, using the case study of the USAID Uganda Health Initiatives for the Private Sector (HIPS) Project.

Challenges of implementing OP 4.12 in Tanzania

Hussein Sosovele

Lessons on challenges a recipient country is facing in implementing OP 4.12 will help in developing options that can increase the effectiveness of the OP in achieving the desired results.

Using SIA to enhance and restore livelihoods

Wednesday, 1 June | 16:30-18:00 | Esperanza

Convener(s): *Ilse Aucamp*

Format: *Paper session*

IAIA Section: *SIA*

The social environment constantly adapts to change and social impacts change throughout the development process. If social impacts are managed and mitigated properly, the process can add to socio-economic development and the restoration and enhancement of livelihoods. This session explores ways in which SIA can be used to assist in restoring and enhancing livelihoods.

Managing Social Impact in E&P Projects

Eno-Obong Ekong, Adebajani Adekoya, Emmanuel Ekpenyong

As mitigation of social risk increasingly become critical success factor in oil and gas investment projects, lessons from successful projects would become important input in proposed development.

Social capital, resilience and livelihoods in SIA

Nick Taylor

This paper considers the concepts of social capital, resilience and livelihoods in SIAs at the community level, particularly in framing the assessment and preparing social impact management plans.

Going beyond impact assessment

Ilse Aucamp

The SIA process traditionally stops when the impact assessment is completed. This paper investigates how practitioners can go beyond impact assessment towards better implementation and management.

The gas to electricity project: An effective ESIA

Beatrice Mchome

EIA and World Bank Safeguard policies when applied to large infrastructure project can assist investing companies to employ international best practice in the management of the environmental and social impacts.

Developing the International Guidelines for SIA

Thursday, 2 June | 16:30-18:00 | Constancia

Convener(s): *Frank Vanclay*

Format: *Workshop*

IAIA Section: *SIA*

This workshop will allow participants to contribute to the development of the International Guidelines for SIA. Being built on the foundations of the International Principles for SIA, the Guidelines are intended to provide practical guidance to assist in the implementation of improved processes and procedures for SIA. Feedback is requested on a basic structure of the Guidelines as developed by a small working group.

Development-induced displacement and resettlement

Wednesday, 1 June | 11:00-12:30 | Luz A

Convener(s): *Charlotte Bingham*

Format: *Paper session with Q&A and roundtable discussion*

IAIA Section: *SIA*

Displacement is amongst the severest of social impacts that can be caused by development projects. Hydropower plants, railways, highways, airports, conservation parks, irrigation schemes: shortly, all projects that require land may—and often do—displace people. Despite their severity, displacement and resettlement remain understudied fields with many unanswered questions. This session will facilitate sharing knowledge and experiences in the field of development-induced displacement and resettlement (DIDR).

Resettlement in action: Mali Alatona Irrigation

Mahmadou Maiga, Charlotte Bingham

This presentation will show how management is key to moving people from their land, building new villages, developing irrigation infrastructure, leveling land, delivering the land, mitigating social impacts and growing firewood—all at the same time.

Megaprojects and forced displacement in Mexico

Carlos Dominguez, Scott Robinson

The paper analyses a number of infrastructure mega projects in Mexico and identifies potential legal and management policies that could improve the processes of forced displacement.

Conservation-induced displacement-India experience

Vinod Mathur, Satya Prakash Yadav

Displacing human communities to create “involute” wild habitats in conservation areas in India has been a mixed experience. Moving from an exclusive to an inclusive approach has therefore become a conservation imperative.

Gender impact assessment: Between benefits, betterment and betrayal

Tuesday, 31 May | 16:30-18:00 | Oriental I

Convener(s): *Arn Thorben Sauer*

IAIA Section: *SIA*

Gender impact assessment (GIA) makes it possible to plan and implement policies, programs, projects, or any other kind of intervention in a more equitable and tailor-made fashion, by assessing impact in a way that addresses gender-differentiated target groups. It encourages gender equality, generates better outcomes and increases efficiency.

Gender within an integrated IA framework

Arn Thorben Sauer

An integrated gender lens has not arrived at the core of the EC's integrated impact assessment. As a consequence, the gender mainstreaming approach has not been translated into IA processes.

Social Impact Assessment

Gender and diversity in policy impact assessment

Aranka Podhora, Katharina Helming, Thomas Heckelei, Jacques Jansen, Petrus Kautto, Pytrik Reidsma, Klaus Rennings

Though gender and diversity aspects gain importance in IA guidelines, EU research on their tools can currently be regarded as weak. Political will and research attention can harmonize this contradiction.

Gender as determinant of health in HIA

Francesca Viliani

The paper will present examples from HIA of extractive industries projects to show that the use of the category "women" should be substituted with a more robust gender analysis.

Community perceptions of mining and local governance

Tuesday, 31 May | 14:30-16:00 | Esperanza

Chairs: Rauno Sairinen, Daniel Franks

Format: Paper session

IAIA Section: SIA

This session will focus on community and stakeholder responses to mine development, and the incorporation of these responses into assessment, planning and management.

Some issues in the Surat Basin mining region

Galina Ivanova, John Rolfe, Lindsay Greer, Stewart Lockie

Australia: Options to increase the effectiveness of mining companies to contribute more effectively to regional development and to enhance the long term benefits of resource development for regional communities are suggested.

Finland: Local responses to environmental impacts of mining

Tuija Mononen

The paper examines how local people experience the environmental impacts (e.g., landscape and nature values, perceptions of environmental risks) of mining.

Social impacts of mining to the rural community

Katja Tervo

The aim of this work is to improve the understanding of the social impacts in remote rural areas and communities in Finland.

A coal barging project on the Zambeze River

Kamal Govender, Stuart Heather-Clark, Samantha Moodley

Responsible development means different things to different stakeholders. This paper evaluates the success of the ESIA in facilitating responsible development.

Local governance and sharing of mining benefits

Tuesday, 31 May | 16:30-18:00 | Violeta II

Convener(s): Rauno Sairinen, Liz Wall

Format: Paper session

IAIA Section: SIA

This session will focus on how the benefits from mine development can flow to communities, and the involvement of local and Indigenous people in governing the distribution of benefits.

Foundations as tools for sharing mining benefits

Liz Wall

This paper presents findings from a World Bank review of company, government and community experiences of using foundations, trusts and funds as a means of distributing benefits from mining.

Mining foundations and knowledge transfer

Caitlin McElroy

This paper investigates the different aspects of the performance of social investment practices in the mining industry through corporate foundations to manage the social benefit of mining operations.

Local governance in a mining community in Brazil

Luis E. Sánchez, Solange Silva-Sánchez

In a municipality featuring 65 years of mining, indicators of social and economic development were collected and compared with surrounding non mining municipalities. Are there significant differences?

Indigenous Peoples, CSR and impact assessment

Cássio Inglês de Sousa, Luana Andrade

This paper presents preliminary reflections from the experience to incorporate Indigenous Peoples affairs on strategic planning and licensing process for Vale Company, in which both authors are involved.

Social impact assessment in mining, oil and gas

Wednesday, 1 June | 11:00-12:30 | Alto B

Convener(s): Daniel Franks, Rauno Sairinen

Format: Paper session

IAIA Section: SIA

This session will examine the application of SIA in the resources sector, covering large-scale mining, artisanal mining, and oil and gas.

Social impact assessment in a context of conflict

Kathryn Tomlinson, Delphine Thizy, Francesca Viliani

This paper discusses the authors' experiences of carrying out a social impact assessment for a mining project in Côte D'Ivoire in a local area experiencing inter and intra community conflicts.

SIA of the Malmberget Mine in Sweden

Charlotta Faith-Ell, Annika Lindgren

This paper discuss an SIA focusing on the impacts on the local community in Malmberget due to a shift of the blasting period by two hours.

Social impacts of oil and gas industry development

Mohammad Fazeli, Soleiman Pakseresh

The paper has a theoretical approach that we need in SIA and to develop insights on local-national relations in development planning and SIA.

An artisanal mining environmental code of practice

Morgan Hauptfleisch, Piers Vigne, Rainer Ellmies

The paper will showcase an environmental code of practice developed for artisanal mining in Namibia. It illustrates simple yet essential measures to address impacts from this informal industry.

Strategic approaches to mine development

Friday, 3 June | 09:00-10:30 | Auditorium

Convener(s): Bryony Walmsley

Format: Paper session

IAIA Section: SIA

This session will focus on the application of SEA to the mining sector, and to the early involvement of assessment practitioners in mine design.

The SEA of reclamation of post-mining landscape

Miroslav Martis, Emilie Pecharova

The rehabilitation of post-mining landscapes is understood in relation to the regeneration of ecosystem functions and social-economic links. The SEA and EIA case studies are located in western Bohemia (Lake Medard).

Coordinating the Uranium Rush: The role of SEA

Bryony Walmsley, Peter Tarr

The Uranium Rush pitted large scale developers and development against a well established ecotourism industry and an under-prepared local and national government. A common vision was negotiated through the SEA.

EIA and permitting master plan in mining projects

Martha Ly

Peruvian EIA has to consider at least the feasibility engineering studies in the project description to develop the impact assessment and risk assessment. These considerations will facilitate the permitting process.

Mine design and environmental assessment

Alvaro Paredes

This is a tool for the engineering and environmental teams involved in a mine development to understand the type of project information that is relevant and when it is required.

Asian SEA, EIA and sustainability assessment I

Thursday, 2 June | 11:00-12:30 | Alto B

Convener(s): *Kii Hayashi*

Format: *Paper session*

IAIA Section: *SEA*

Participating in this Asian EIA/SEA session will give you good knowledge on EIA/SEA good practices in this region and also provide you good human network in Asia.

Prospects of SEA in Pakistan: A case study of CDWA

Nazia Zakir Ahmed, Aurangzeb Khan

CDWA aims at providing safe drinking water to general masses in Pakistan. This case study highlights the requirement of institutional capacity and legal mechanism for SEA application to programmes and policies.

Implement of EIA promises from the developer

Tung-Wan Chang, Sun Wei-Chien, Cheng Hui-Wen

This paper will illustrate the EIA regulation about government supervision, and discuss the developers' responsibility, compulsory or voluntary.

Indicator and communication in SEA: The China case

Jingjing Gao, Lone Kørnøv, Per Christensen

The paper takes a Chinese SEA case study to discuss the effectiveness of SEA by using indicators in influencing the communication between stakeholders in SEA process.

Expectation on railway expansion in Hong Kong

Henry Leung, Richard Kwan, Glenn Frommer

This paper presents the proactive approach that MTRCL is adopting in managing environmental challenges during this railway expansion process as well as maintaining their key core competence on environmental management.

Environmental assessment and enforcement in China

Xin Ren

Review of EA system and major reasons for poor enforcement in China with recommendations for improving EA system and its implementation and supervision in future.

Asian SEA, EIA and sustainability assessment II

Thursday, 2 June | 14:30-16:00 | Alto B

Convener(s): *Jong-Gwan Jung*

Format: *Paper session*

IAIA Section: *SEA*

Participating in this Asian EIA/SEA session will give you good knowledge on EIA/SEA good practices in this region and also provide you good human network in Asia.

HIA of responsible design for land use in Mab Taput

Duangjai Rungrojcharoenkit, Thunyaporn Surapakdee, Buddhina Nuntavorokarn

HIA is conducted to formulate the scenario of the proposed land use plans and will be used as input for the responsible design of productive land in Mab Ta Put.

Evaluation of the effectiveness and quality of SEA

Huizhi Wang, He Xu

This paper regards that desirable institutional and cross-sectoral collaboration would help enhance SEA's effectiveness. The conclusions point to some suggestions that would help to ensure SEA implementation in China.

Critical factors for implementing EIA effectively

Jie Zhang, Per Christensen, Lone Kørnøv

This paper maps out both the factors related with the specific stage of EIA implementation and the general factors referred to the whole EIA system based on comprehensive implementation model.

How can SEA influence decision-making in China?

Zhixi Zhu, Zhaohui Li, Yuchi Luo

This paper discusses how SEA can affect decision-making in the context of China through review of several cases in Guangdong Province.

Strategic environmental assessment and climate change I

Tuesday, 31 May | 14:30-16:00 | Auditorium

Convener(s): *Kin-che Lam, He Xu*

Format: *Paper session*

IAIA Section: *SEA*

What implications will climate change have on the feasibility and sustainability of policies, plans and programs? How should we embrace considerations of climate change risks in the SEA process? With practical examples, this session will provide practical guidance on the planning, design and operation of PPP with climate change considerations in mind. The discussion will cover a wide range of sectors including land use, urban development, industry, agriculture, livestock breeding, forestry, energy, water conservancy, transportation and tourism.

Climate Change and urban SEA in China

He Xu, Jie Ding

This paper explores a framework to incorporate climate change into the SEA process in China and the search for relevant indicators of vulnerability and methodology.

Shaping a sustainability strategy for the Arctic

Juan Azcárate, Berit Balfors, Arvid Bring, Georgia Destouni, Ulla Mörtberg

A strategic environmental assessment is proposed to facilitate strategic dialogues on the consequences of climate change in the Arctic, and to reach consensus on a sustainability strategy for the region.

Climate considerations and adaptation indicators

Hope Herron, Teresa Leonardo, Ms. Charlie Macpherson

Development of effective indicators of adaptive capacity will be explored, based in part on results obtained through USAID's Asia Regional Center of Excellence on Climate Change and Development Feasibility Assessment.

SEA of the Dominican national energy plan

Rodrigo Jiliberto

Contribution of the SEA of the national energy plan to the development of strategic energy planning in the Dominican Republic.

SEA of Spanish river basin plans and climate change

Juan José Rodríguez, David Pereira, Juan José Oñate, Macarena Herrera

A checklist approach is used to study how climate change considerations are assessed in the river basins planning process performed under EU water framework directive through the SEA process in Spain.

Strategic environmental assessment and climate change II

Tuesday, 31 May | 16:30-18:00 | Constancia

Convener(s): *He Xu, Kin Che Lam*

Format: *Paper session*

IAIA Section: *SEA*

Role of SEA in the changing institution of China

Kin Che Lam

This paper discusses what SEA in China should focus on considering that strong central planning is gradually giving way to market forces and public participation.

Study on climate effect of urbanization strategy

Lijun Ren, Wenjun Wang, Tong Chen, Jianchun Wang

The Yellow River Delta is one of the biggest deltas in China. This paper chooses greenhouse gas emissions as the indicator to analysis of the impact of urbanization strategy on regional climate.

Assessing hydrological impacts of climate change

Yongqin Chenn

This study investigated the differences in hydrological responses to climate change scenarios simulated by six different monthly water balance models in the Dongjiang basin, South China.

Use of SEA for developing green, low carbon city

Foon Tung Chan, Kin Che Lam

This research explores the use of SEA for green, low carbon economy in urban master planning and analyze the challenges and issues in the context of China.

Strategic Environmental Assessment

Overview of recent SEA development in Latin America I

Thursday, 2 June | 11:00-12:30 | Oriental II

Convener(s): *Rodrigo Jiliberto*

Format: *Paper session*

IAIA Section: *SEA*

In the last five years, most Latin American countries have developed some experience on SEA because of the approval of national legislation or because of the promotion of its use by the multilateral finance institutions. An initial revision of this experience would be useful to enhance its future effectiveness.

SEA of the Highway Ring Program of São Paulo

Francisco Fabbro Neto, Marcelo Pereira de Souza, Simone Mendonça Santos, Aline Esteves, Olívia Oiko, José Fortunato Neto

This article analyzes the proceedings that characterize SEA and compares the Brazilian experience in transport planning through the Rodoanel Program in São Paulo Metropolitan Region, Brazil.

An overview of current practice of SEA in Brazil

Marcelo Montaña, Priscila Oppermann, Anne Caroline Malvestio

The present paper brings an overview of the practice of SEA in Brazil and describes the main aspects related to publicly available SEA reports produced over the last decade.

Strengths and weaknesses of SEA in Brazil

Priscila Oppermann, Marcelo Montaña

This article analyzes the current situation of SEA in Brazil, their strengths and challenges in relation to the prospects formal/legal, conceptual, practical and institutional in the country.

Overview of recent SEA development in Latin America II

Thursday, 2 June | 14:30-16:00 | Oriental II

Convener(s): *Juan Palerm*

Format: *Paper session*

IAIA Section: *SEA*

In the last five years, most Latin American countries have developed some experience on SEA because of the approval of national legislation or because of the promotion of its use by the multilateral finance institutions. An initial revision of this experience would be useful to enhance its future effectiveness.

EIA Regional modality: An approach to SEA

Beatriz Silva-Torres, Ma. Elena Cuevas Felix

The necessity to elaborate environmental studies so that they incorporate the principles of SEA developed different studies, with a scheme of work close to the strategic environmental evaluation.

EI Manifest: Decision taking or accompaniment

Norma Fernandez Bucos, Sergio López Noriega

Document for decision taking or accompaniment of a project.

Innovative SEA application in Colombia

Rodrigo Jiliberto

One of the innovative applications of SEA in Latin American countries is the one applied in Colombia to critical sustainability issues rather than to plans or programs.

Strategic environmental assessment and public participation I

Wednesday, 1 June | 11:00-12:30 | Esperanza

Convener(s): *Jean-Philippe Waaub*

Format: *Paper session*

IAIA Section: *SEA*

SEA is now enforced in many countries. Even with restrictions, public participation procedures at the strategic level were applied in many sectors. What have we learned from years of case studies and theoretical point of views? What are the unsolved issues for the next decade? How to envisage the future?

Public participation in SEA: Where is it?

Delia Gorgos

Involvement of the public throughout environmental procedures is crucial; the challenge remains in developing a capable strategy to obtain the public input when, where and how needed.

What does good public consultation mean for SEA?

Xiaoxin Shi

Public participation in SEAs needs to follow a different track from that in EIAs. A different approach is needed in SEA to utilize the public's knowledge in early decision-making.

Public participation in policy SEA

Fernando Loayza

Drawing on evidence from the World Bank's SEA pilot program, stakeholders analysis, culturally sensitive participatory process, and multistakeholder frameworks are analyzed for SEA in policy and sector reform.

Testing institutions centered approaches to SEA

Anders Ekbohm, David Annandale, Anna Axelsson, Mat Cashmore, Måns Nilsson, Daniel Slunge

Building on the evaluation of a recent World Bank pilot program on institution-centered SEA, we present findings on the degree to which this innovative approach to SEA achieved its goals.

Strategic environmental assessment and public participation II

Wednesday, 1 June | 14:30-16:00 | Esperanza

Convener(s): *Jean-Philippe Waaub*

Format: *Paper session*

IAIA Section: *SEA*

Wind farms and public participation

Maria de Lourdes Vazquez Rascon, Jean-Philippe Waaub, Adrian Ilinca

The public sometimes rejects major energy policy decisions. A strategic environmental assessment (SEA) is required to identify and resolve issues involved and at the same time foster public participation.

Using MCDA to plan for the SEA of the Konkouré

Jean-Philippe Waaub, Karim Samoura

Exploiting the Konkouré watershed (Guinea) potential needs also minimizing impacts. This study proposes a multicriteria and multistakeholder decision aid process and tool that would privilege stakeholder involvement and consensus.

SEA in aboriginal adaptive co-management in Canada

Jean-Philippe Waaub, Anne-Laure Bouvier, Véronique Landry

Fostering meaningful Aboriginal participation in federal and provincial environmental assessment procedures needs to implement new planning and participative decision making processes. A system is proposed and discussed.

Concurrent sessions

Transportation

Impact assessment in the transport sector

Wednesday, 1 June | 16:30-18:00 | Alto B

Wednesday, 1 June, 16:30-18:00

Convener(s): *Julieta Pisanty-Levy*

Format: *Paper session*

The session focuses on different transport projects that address the evaluation of environmental performance of highway rehabilitation works, the use of compensatory measures in road projects, and a program to manage a high speed rail project and the restriction of development of new housing projects due to impacts of aircraft noise.

Evaluating the environmental performance of highways

Luis E. Sánchez, Roberta M. Costa

A procedure to evaluate environmental performance of ongoing highway works was developed and tested using data collected from environmental supervision reports for 26 projects in Brazil.

By Spain roads: Compensatory measures

Rosa Arce Ruiz, Nerea Aizpurua Giraldez

The article will present an analysis of significant examples of compensatory measures that have been used in Spain in the road projects.

IA and responsible national high speed rail project

Josh Lam, Glenn Frommer, Henry Leung, Angela Tong

This paper presents the comprehensive EIA follow-up program developed to manage the implementation and environmental performance of a challenging express rail project in China, deploying good practices and state-of-the-art methodologies.

Impacts of aircraft noise on city growth

Gilbert Koskela

Increasing air traffic restricts the possibilities of the cities to plan new residential areas. At Helsinki Airport proposed new aircraft noise zones would restrict development of new residential areas.

Water and Coastal Zone Management

Safeguarding healthy rivers and environmental flows through impact assessment

Thursday, 2 June | 11:00-12:30 | Auditorium

Convener(s): *Rebecca Tharme, María Antonieta Gómez Balandra*

Format: *Paper session*

A body of innovative approaches is evolving to safeguard river health while simultaneously meeting growing needs for water and energy worldwide—from tools for eco-regional conservation planning to frameworks for environmental flow assessment at site and regional-scales. Opportunities abound for their more effective integration with impact assessment policies and practices.

Integrating river conservation tools across scales

Rebecca Tharme, Jeff Opperman

This presentation will briefly review key features of a healthy river, such as flow regime and connectivity, and then summarize tools to assess and design protection strategies for these features.

Institutional Arrangements for W-CEA in Canada

Janía Chilima, Jill Gunn, Bram Noble, Robert Patrick

This program of research attempts to scope institutional arrangements in order to evaluate the support for watershed-scale cumulative effects assessment in the Grand River Watershed, Ontario, Canada.

Proposal of environmental flows national standard

J. Eugenio Barrios-Ordóñez, Rafael Sánchez-Navarro, Sergio A. Salinas-Rodríguez, J. Alfredo Rodríguez-Pineda, Ignacio González-Mora, Ignacio Gómez-Almaraz, Hilda E. Escobedo-Quiñones

Determining environmental flows through a national standard, contributes substantially not only in a sustainable Mexican water policy, but also conducting a decision support system in EIA or SEA.

Application of IHA-RVA to hydro projects

María Antonieta Gómez Balandra, José García-García, Antonio García-García, Rosadina Llerandi Juárez, Pilar Saldaña Fabela

Environmental flows are important issues for any water management project, program, plan or policy, hence its relevance to be considered as part of SEA and EIA.

SEA and sustainable water and coastal management I

Wednesday, 1 June | 14:30-16:00 | Oriental II

Convener(s): *Ross Marshall*

Format: *Paper session*

Water is the ultimate resource, its abundance or deficit directly influences development. As man's water needs become increasingly critical, SEA has a role in setting out the consequences for unsustainable activities, poorly sited infrastructure, depletion or economic mismanagement. This session looks at current practice and lessons learnt across a spectrum of water management issues.

Water and SEA in Antofagasta Region

José Adolfo Moreno Correa, Cristián Gutiérrez Villalobos

SEA implementation and water management, sustainable lessons in the region with the driest desert of the world and major indexes of investment of the country.

Reassessing the river development project

Jong-Gwan Jung, Sang-Wook Han

The reassessment of a mega project which is undertaken in the context of regional sustainability based on the triple bottom line.

EIA and water management in Portugal

Pedro Bettencourt, Cláudia Fulgêncio, Sónia Alcobia

This paper summarizes NEMUS's work in three river Basin Management Plans in Southern Portugal's regions and discusses main conclusions, goals and its guidelines for a sustainable water and coastal management.

SEA and sustainable water and coastal management II

Wednesday, 1 June | 16:30-18:00 | Oriental II

Convener(s): *Ross Marshall*

Format: *Paper session*

Cancun Beach Nourishment environmental effects

Carlos Sánchez, Gustavo Arvizu, Diana Moran, Juan Carlos Espinal

The Beach Nourishment Project in Cancun and the environmental measures to avoid any impact to the marine biota (in the fill area and also in the offshore borrow sand areas).

The promotion of green infrastructure outcomes

Ross Marshall, Elsa Joao

Green infrastructure is sustainable infrastructure delivering high quality networks of green spaces and environmental benefits in urban environments. This paper examines the concepts' application through UK water management EIA projects.

Energy, climate change and water resources in Niger

Prince Mmom, Israel Owate

Climate change could affect water availability as such energy supply and ecosystems function.

General Topics

General topics I

Friday, 3 June | 09:00-10:30 | Violeta I

Convener(s): *Javier Clausen*

Format: *Paper session*

This session focuses on a wide range of themes relating to soil pollution, environmental indicators, used oil recycling, forest degradation analysis, and ecosystem services.

Soil pollution issue in urban development project

Liu Wei, Du Shutian, Wang Xin

According to the characteristics of soil pollution analysis in EIA about standard urban development project, I conclude the way and thought of soil pollution analysis in EIA.

Design of indicators of pressure-state-response in

Hilario Martinez, Rodolfo Garza, Julio Rolón, Carmen Nava, José Menindez

The use of indicators Pressure-State-Response, using the background descriptions of the ecosystem reported in diverse environmental impact assessments prepared for projects could be implement a monitoring system of human well-being.

Environmental Permitting of used oil recycling

Benny Susi

The used oil refinery provides an eco-friendly solution of re-using a non-renewable resource over and over rather than burning the oil as cheap fuel or improper disposal.

Forest Degradation and Restoration of North Korea

Chong-Hwa Park, Jong-Joon Park, Jaeshim Yoo, Sung-Ho Lee

An evaluation of forest degradation and restoration priority of North Korea by using CDM.

Integrating Ecosystem Services into EIA

Julia Tims

This presentation will discuss the practical aspects of integrating ecosystems services assessment into ESIA. Two case studies of integrating ecosystem services assessment into ESIA, revealing the approach, lessons learned, recommendations.

General topics II

Friday, 3 June | 09:00-10:30 | Violeta II

Convener(s): *Eduardo Vadillo*

Format: *Paper session*

This session focuses on several aspects of the EIA process and the impact of economic policies.

EIA scoping in Sao Paulo state, Brazil

Marcelo Montaña, Flavia Risse

This paper describes the stage of scoping in EIA processes in the State of Sao Paulo (Brazil) in order to verify the accomplishment of its role within an EIA process.

The role of consultants in EIA process in Mexico

Eduardo Vadillo

This paper attempts to show, from a particular point of view, what were the results of the environmental impact process in improving the quality life, conservation resources and sustainable development.

Global environmental problems and Local consumption

Jaime Martinez-García, Maria Soledad Martinez-Lopez

This paper analyses the relationship between international trade and economic policies and local production and consumption, and how this affects population welfare.

Information for effective EIA follow-up

Sueli Harumi Kakinami, Evandro Mateus Moretto

This paper analyzes and discusses the gaps that exist in the follow-up stage of hydropower projects in Brazil for the adequate management and effective use of the information produced.

General topics III

Friday, 3 June | 09:00-10:30 | Alto B

Convener(s): *Grethel Villicaña*

Format: *Paper session*

This session focuses on a wide range of themes relating to EIA systems, project monitoring programs, oil industry impacts, and eco-corridors.

Comparing the EIA systems of Costa Rica & Nicaragua

Anne Glucker

This comparative case study analyses both the development and current situation of the EIA system in Costa Rica and Nicaragua. Here, the focus will be on the integration of themes (environmental, social, economic) into the evaluation process and the integration of stakeholders into the EIA decision-making process.

Pre-salt oil and its contribution to Sustainable development in Brazil

Cristiano Vilardo, Alexandre Campos

Pre-Salt Oil and Gas discoveries and their contribution to sustainable development in Brazil: a preliminary evaluation of the government regulatory framework.

Assessment Items Analysis for Eco-Corridors

Heonseok Yoo

This study analyzed the importance of assessment items and the criteria to determine which areas require eco-corridors the most, using the Analytic Hierarchy Process.

Perspectives on Project Monitoring

Diane Brown, Debra Zanewich

A short overview will be given regarding project environmental and social monitoring from a development finance / insurance provider perspective. Examples of factors contributing to superior performance will be explored.

Oil for Development



Impact assessment and partnerships for local development

Thursday, 2 June | 11:00 - 12:30 | Oriental I

Convener(s): *Ilse Aucamp, Jos Arts, Charlotta Faith-Ell, Ana Maria Esteves*

Format: *Paper session*

Managing the environment for sustainable outcomes requires more than just environmental role-players. Partnerships between different players are needed to ensure responsible project-delivery. The session aims to raise awareness amongst both decision-makers and practitioners of the need to build their capacity to manage complexities of partnerships providing relevant and practical guidance.

Cradle to cradle: Namibia's "Uranium Rush" SEA

Peter Tarr, Bryony Walmsley

This SEA helped decision-makers understand short, medium and long-term effects of uranium mining. It considered trade-offs between different objectives and dimensions; between stakeholders and between generations. The process built consensus.

Best practices in public-private partnerships

Jeanne Ellis

When designing a public private partnership for development impact, it is important to leverage each partner's core competencies, devise clear metrics for contributions and agree on the definition of "success."

Efficiency of applied impact assessment

Giuseppe Pasquetti Hernández, Marco Antonio Muñoz Huerta, Reyna Lilia García Loredó

SIGA is the name of a mechanism to ensure effectiveness and efficiency of impact assessment measures applied on field to development projects.

Big government or localism: A new ethos for United Kingdom IA

Ross Marshall

The UK Government localism agenda has significant implications for EIA/SEA practice, especially where IA scoping/consultation forms the key communication pathway between local authorities/stakeholders and the promoting public sector body.

The influence of governance on IA effectiveness I

Wednesday, 1 June | 14:30-16:00 | Violeta II

Convener(s): *Angeles Mendoza Sammet, William Ross*

Format: *Panel*

The purpose of this session is to promote a dialogue on how the differences in the quality of national governance influence the effectiveness of impact assessment as a tool for sustainable development. One of the points to discuss is the similarities and differences between developed and developing countries.

Is EA promoting effective environmental governance?

Nigel Rossouw, Richard Hill, Francois Retief

EA needs to define environmental governance processes for mega projects. However, this paper will illustrate that EA practice in South Africa is not promoting effective environmental governance.

Governance and IA effectiveness: Canada and Mexico

Angeles Mendoza Sammet

This paper analyzes the main factors influencing the effectiveness of impact assessment as a tool for sustainable development in Mexico and Canada, and the implications for conservation in North America.

Twenty-five years of Netherlands' EIA: Discourses on governance

Jos Arts, Hens Runhaar, Frank van Laerhoven, Peter Driessen

Analysis of 25 years of EIA in the Netherlands on basis of a broad survey, with a focus on the discourses of EIA as a governance tool for environmental policy.

The influence of governance on IA effectiveness II

Wednesday, 1 June | 16:30-18:00 | Violeta II

Convener(s): *Angeles Mendoza Sammet, William Ross*

Format: *Panel*

The purpose of this session is to promote a dialogue on how the differences in the quality of national governance influence the effectiveness of impact assessment as a tool for sustainable development. One of the points to discuss is the similarities and differences between developed and developing countries.

SEA as a framework to address small projects?

Jill Gunn

This research investigates how SEA is being used to collectively address small project developments and their cumulative impacts. Implications for "tiering" and opportunities to advance regional-scale SEA are discussed.

Contextualizing policy SEA in developing countries

Anders Ekborn

The Need for Contextualization: Lessons Learned from country cases and the World Bank Pilot Program on Institutions-Centered SEA in Policy and Sector Reform.

Governance and EIA implementation in Nigeria

Abisoye Odejide, Karen S. Buchanan

This paper contends that the efficiency and effectiveness of EIA as a tool for sustainable development is restricted by the quality of governance in developing countries such as Nigeria.

Entailment of the EIA with the public cost

Eduardo Rubio, Manuel Murad

Environmental supervision and audit of infrastructure works.

Spanish-speaking IA Network meeting

Reunión RHEA-Red

Hispanohablante de EA

Wednesday, 1 June | 14:30-16:00 | Auditorium

Convener(s): *Iñigo Sobrini, Manuel Diaz*

Format: *Workshop*

Continuing the work of Perth 2008 and Cordoba 2009, we want to boost the development of RHEA to put Spanish-speaking IA practitioners in touch with each other within IAIA. Sharing professional experiences will foster better IA practice in a global context, create better public opinion, and result in leaders and decision makers. Each other experiences will impulse best IA practice in a global context, and a better public opinion and dirigents acceptance.

Se pretende impulsar la Rhea, para aglutinar a los profesionales de la EA de los países de habla hispana, en el marco de la IAIA.

Special to IAIA

Submitting papers to IAPA: An interactive workshop

Tuesday, 31 May | 14:30-16:00 | Alto A

Convener(s): *William Ross*

Format: *Panel/Workshop*

A panel of editors of IAIA's own journal, *Impact Assessment and Project Appraisal*, will give advice to IAIA members and potential contributors of papers about the process of writing and submitting articles, including the process of dealing with reviewer comments, and even being a reviewer. It is all about what IAIA members need to know and provides the opportunity to meet the editors and ask questions about the mysteries of the publication process.

Panelists

Angus Morrison-Saunders, Co-Editor, *Impact Assessment and Project Appraisal*
 Francois Retief, Co-Editor, *Impact Assessment and Project Appraisal*
 Frank Vanclay, Professor, University of Groningen

"IConnect— Do You?"

Tuesday, 31 May | 16:30-18:00 | Alto A

Friday, 3 June | 09:00-10:30 Esperanza

Convener(s): *Bridget John*

Format: *Workshop/Q&A*

If you have not yet explored IAIA's new professional networking site, *IAIAConnect*, join us to learn more and how it can benefit you. Bring your questions, and we will walk through online discussions, sharing resources, and finding other members with similar interests. We can even take your photo and upload it to your profile for you!

IAIA Affiliates forum

Thursday, 2 June | 16:30-18:00 | Esperanza

Convener(s): *Iñigo Sobrini*

Format: *Workshop*

Representatives from the Affiliates listed below will each give a short presentation on the theme "How to Best Integrate the Affiliate's Life with IAIA Itself," followed by questions and discussion. The presentations will specifically address:

- What motivates affiliate members to become IAIA international members?
- Are there other things IAIA could do/offer that would attract more affiliate members?
- What obstacles keep affiliate members from joining IAIA?
- How do you persuade someone interested in local/regional issues that there is value in IAIA and the international perspective?

Participating Affiliates

- Ireland & UK Branch
- IAIA-Italia
- Association québécoise pour l'évaluation d'impacts (AQEI)
- South Africa (IAIAsa)
- Western and Northern Canada (IAIA-WNC)
- Mozambique
- Korea
- Zambia
- Nigeria
- Germany
- IAIA-Spain
- New Zealand Association for Impact Assessment (NZAIA)

Posters are also being displayed by these groups. Stop by during the poster session to visit with representatives of the Affiliates and learn more about their organizations and activities.

Find that perfect fit.

Your online employment resource for jobs and candidates in the field of impact assessment.

IAIA Career Central

Where do you go to find the best jobs and most qualified candidates in Impact Assessment? The International Association for Impact Assessment (IAIA) has created **IAIA Career Central** to be your resource for making online employment connections in the field.

Job Seeker Benefits

- Services are FREE!
- Online job search and application.
- Confidential resume posting.
- Save jobs and apply when ready.
- Email notification whenever posted jobs match your search criteria.

Employer Benefits

- Targeted talent pool – reach a focused audience of qualified professionals.
- Easy online job posting and management.
- Resume search included with job posting.
- Email notification whenever job seekers match your requirements.

Post your job or resume at <http://jobboard.iaia.org>



IAIA
International Association for Impact Assessment

1990 23RD STREET SOUTH | SUITE C | FARGO, ND 58103-9788 USA
 PHONE +1 701.297.7008 | FAX +1 701.297.7017



Globally Renowned Environmental and Social Impact Assessments

Golder Associates is a respected, employee-owned, global company providing consulting, design, and construction services in earth, environment, and energy. Our purpose, "Engineering Earth's Development, Preserving Earth's Integrity", demonstrates our commitment to service and technical excellence and sustainability.

www.golder.com



Section activities

Meet the IAIA Sections!

IAIA Sections are a formal point of connection for IAIA members who have an interest in a special area of concentration; these groups ensure that the academic, professional, and practical interests of members in all areas of impact assessment are catered to within IAIA. IAIA members can join Sections through IAIAConnect. Specific qualifications are not a prerequisite.

Sections not only promote the development of best practice within the Section interest area, but also strengthen links between their own interest area and the broader remit of IAIA. Sections develop a rolling program of activities. Sections may pursue opportunities for relevant conferences, workshops, training, projects, publications and research at IAIA conferences and elsewhere.

Why join an IAIA Section?

- When you pay the non-member conference rate, you automatically become an IAIA member and are eligible to join a Section.
- Sections are a networking forum for IAIA members, where you can meet your colleagues.
- Sections promote your personal professional development.
- Sections develop interesting activities that you may want to join.

Where can I find the Sections at IAIA11?

- The Sections have special tables at the opening reception, where you can informally meet with the Section chairs and find out more about what they do.
- All sessions that have been organized by the Sections are clearly identified in the program.
- Each Section holds one or more Section meetings during the conference, which everyone is welcome to attend.
- Tables are identified at lunch times on Wednesday and Thursday, where Section members and interested persons can meet informally to continue discussions.
- Section chairs are identified by ribbons on their name tags so that you can find them during the conference.

Questions?

Please contact the coordinator of a specific Section as listed at right, or visit www.iaia.org > Sections for more information.



Current Sections

AGRICULTURE, FORESTRY AND FISHERIES

Pamela Gunther
Pamela_Gunther@golder.com

Patrick Duffy
pjduffy@shaw.ca

BIODIVERSITY & ECOLOGY

Asha Rajvanshi
ar@wii.gov.in

Susie Brownlie
dbass@icon.co.za

CORPORATE STEWARDSHIP & RISK MANAGEMENT

Rita Sully
ritasully@yahoo.com

Debra Zanewich
d_zanewich@hotmail.com

CULTURAL HERITAGE

Arlene Fleming
halandarlene@msn.com

ENERGY

Pamela Gunther (Renewables)
Pamela_Gunther@golder.com

Arne Dalfelt (Non-renewables)
arne.dalfelt@nibr.no

HEALTH

Ben Harris-Roxas
b.harris-roxas@unsw.edu.au

Francesca Viliani
francescav@internationalsos.com

INDIGENOUS PEOPLES

Martin Haefele
mhaefele@reviewboard.ca

Murray Jones
murray_8@sympatico.com

INTEGRATED ASSESSMENT OF TRADE-RELATED POLICIES

Simone Heri
simone.heri@sunrise.ch

STRATEGIC ENVIRONMENTAL ASSESSMENT

Monica Fundingsland Tetlow
Monica.tetlow@asplanviak.no

Marie Hanusch
m.hanusch@boschpartner.de

DISASTERS & CONFLICTS

Charles Kelly
72734.2412@compuserve.com

Michel Bouchard
michel.a.bouchard@cogeos.com

IA LAW, POLICIES & PRACTICE

Simon Marsden
simon.marsden@flinders.edu.au

Christine Asari
christina.asari@yahoo.com

PUBLIC PARTICIPATION

Bert Enserink
b.enserink@tbm.tudelft.nl

John Devlin
jdevlin@uoguelph.ca

Sukhad Keshkamat
sukhad_keshkamat@yahoo.com

SOCIAL IMPACT ASSESSMENT

Ana Maria Esteves
amesteves@communityinsights.com.au

STUDENTS AND EARLY PROFESSIONALS

Sandra Mols
smc.mols@gmail.com

Poster session

Tuesday, 31 May | 12:40 - 13:30

Posters are listed in alphabetical order by the presenting author.

Use the ballot provided with your name tag package to vote for your favorite poster by 11:00 on Thursday, 2 June!

186. Restoration of beaches in Cancun

Roberto Acero, Ricardo Guerra

The EA was approved by federal authorities and included a process of public consultation.

493. Palenque and airport and endangered species protection

Raúl Enrique Arriaga Becerra, Alejandra Chávez Cadena, Itzel Servin Martinez

The development of infrastructure in fragile ecosystems represents an opportunity to establish activities related to responsible development projects, which allows society to harmonize environmental protection as well as economic development.

460. Nursery and botanical garden named CFE Construcción

Reynaldo Javier Balderas-Bravo, Claudia Isabel Prado-Rojas, Margarita Barba-Platas, Claudia Mayela Trevino-Garza

Comision Federal de Electricidad, focused on supporting the preservation of the flora of the northeast of Mexico, built a nursery with a greenhouse and a botanical garden.

536. Oil exploration companies in Peru

Enrique Bedos

Why consultation with indigenous people fails and what can be done to avoid repeating the same mistakes.

135. CFE contribution in cultural heritage protection

Deyanira Bello, Juan Manuel Álvarez Pineda

CFE has the social responsibility to safeguard the cultural heritage. Therefore, CFE promotes, in collaboration with INAH, lines of action for protecting this heritage during the development of electricity infrastructure.

309. EIA success cases: The Cavado Estuary Project

Pedro Bettencourt, Carlos Jesus, Angela Canas, Sónia Alcobia

The EIA of the Cavado Project is considered a success case because the EIS predicted accurately the coastal evolution's pattern and defined the appropriate measures to mitigate its impacts.

381. Negotiated agreements and environmental assessment

Benjamin Bradshaw, Sandra Lukas-Amulung, Martin Haefele

Increasingly in the Canadian North, developers engage in two parallel processes: the preparation of environmental assessments for public regulatory review, and the establishment of private negotiated agreements with Aboriginal communities.

121. Quality of life of the fishermen of Jalisco

Myrna Bravo, Rosa María Chávez Dagostino, Rodrigo Espinoza Sánchez, Edmundo Andrade Romo

Fishermen off the coast of Jalisco have an average quality of life +4, i.e., the degree of satisfaction is below expectations and identifies them as a vulnerable social group.

359. Effects of high dose use sludge on climate change

Miguel Angel Casermeiro, Clarissa Gondim-Porto, Sergio González-Ubierna, Ignacio Jorge, Ignacio Nadal, Leticia Platero, Federico Navarro-García

We analyze the effects of high-amount unique amendments of urban sludge on crop soils and climate change. We found increases in CO2 emissions and changes in the soil's microbial composition.

157. Corporate social responsibility of nature tourism

Rosa María Chavez Dagostino, Tatiana Gómez Morales

Conservation, local development, best practices, quality of life, social economy.

547. Ecosystem services and IA: The extractive industries

Liz Clarke, Petrina Rowcroft, Steve Smith

Illustrating the need for the extractive industries to recognise the importance of ecosystem services, to integrate their consideration within the IA toolkit and potential ways in which to achieve this.

151. Estimating carrying capacity in an NPA

Jose Luis Cornejo, Rosa María Chavez, Edmundo Andrade, Rodrigo Espinoza

The aim of this study is to estimate the carrying capacity of Isla Larga island in order to perform strategic planning for mitigation of impacts by tourists against the ecosystem.

402. The environmental assessment of the energy sector

Manuel Díaz Marín, Sergio González-Ubierna, Ana Pilar Espluga, Luis Desdentado, Iñigo Sobrini, Juan Miguel Martínez-Orozco, Miguel Ángel Casermeiro

We present an overview of the environmental assessment of the energy sector in Spain. Notable differences were observed between regions and types of projects.

457. Jatropha Curcas in Mexico: Sustainable feedstock?

Rocio Diaz-Chavez, Lamia Sbiti

This paper presents a preliminary sustainability appraisal of Jatropha production for biofuel in Chiapas and Yucatan, Mexico. The appraisal was based on sustainability principles developed by the COMPETE project.

302. The state and role of indicators use in SEA

Ana Sofia Ezequiel, Tomás B. Ramos

Indicators selection, development, and evaluation are very important to effectively support their use in the SEA process; a set of key factors and good practices for their use was proposed.

469. Prairie dog on the right of transmission line

Cruz Figueroa Vindiola

CFE is committed to the environment and promotes efforts to ensure the sustainability of its projects.

Note: Only posters approved by the Program Committee during the review process may be displayed.

497. EIA Analysis for two large dam projects in Mexico

Margarita Gutierrez Vizcaino, Javier E. Clausen Silva, Marco Antonio Gutierrez Gonzalez, Romina Martinez Velarde, Alessia Kachadourian Marras, Sergio Contreras, Paulina Barreto Heredia

EIA analysis of two large dams in western Mexico reflects differences in the implementation of international best practices and how their proper application could have probably minimized social environmental impacts.

429. What makes a project go to EIA

Martin Haefele, Paul Mercredi, Nicole Spencer

Why are some projects subjected to higher levels of scrutiny (and associated costs) than others? We looked at multiple criteria including project type and unsettled indigenous land claims.

500. Incorporating traditional knowledge into EIA

Martin Haefele, Alan Ehrlich, Chuck Hubert

Using case studies in northern Canada, this poster examines the successes and failures of incorporating indigenous traditional knowledge into EIA.

307. Environmental Code of Practice for small mining

Morgan Hauptfleisch, Piers Vigne, Rainer Ellmies

An illustration of the Environmental Code of Practice for small-scale mining in Namibia, addressing socio-economic and biophysical impacts of artisanal mining in a visually pleasing and easily understandable manner.

346. Comparing the outcomes of environmental assessment

Samuel Hayes

The research considers SEA and SA in the UK around a central question: to what extent strategic level environmental assessment contributes to the consideration of sustainability and the environment.

155. McGill-UNEP Collaborating Centre on EA

Gordon Hickey, Mark Curtis, Michel Bouchard, Nicolas Kosoy, William Kennedy

This poster outlines the research and capacity building activities of the McGill-UNEP Collaborating Centre on Environmental Assessment and outlines its future direction.

70. Environmental management in Salaverry Port

Silvia Iglesias

Salaverry Port is located at the northern coast of Peru and will be used to export minerals. This research will update the environmental baseline and propose an environmental management.

181. The application of social performance reviews

Murray Jones, Jay Wagner

This poster draws on practical experience in presenting the social risks of operating in sensitive areas, defines Social Performance Review, outlines the process and sets out the benefits of application.

498. Groundwater impacts in Mexican urban planning

Alessia Kachadourian Marras, Paulina Barreto Heredia, Javier Clausen Silva, Romina Martinez Velarde, Margarita Gutierrez Vizcaino, Marco Gutierrez Gonzalez

The need to prioritize groundwater conservation and management in urban development plans is discussed based on Mexican case studies' EIAs outcomes in order to protect water sources for future generations.

144. Climate change in SEA: Potential and reality

Sanne Vammen Larsen

The paper sheds light on two issues: how climate change is included in SEA in the case of Danish river basin management plans, and the public's influence on the process.

473. Recovery of mangrove in the Laguna de Terminos

Fidencio Leon Burgos

To bring electricity to Isla del Carmen, it must inevitably cross through protected areas. In return for the construction of transmission lines, 17.5 hectares of mangroves were reforested.

479. Rescue, relocation and monitoring of Alouattapigra

Fidencio Leon Burgos

The capture and translocation of 7 groups of Yucatan Black Howler Monkey was a mitigation of the environmental impact of building the power line.

482. Monitoring populations of bats in Campeche, Mexico

Fidencio Leon Burgos

The conservation of the cave called "Bats Volcano" was an important aspect of the construction of the power line in the Yucatan peninsula.

200. New GIS-based impact assessment policy framework

Giuseppe Magro, Stefania Pellegrini, Pasqualinda Altomare

The adoption of a GIS-based methodology into official Italian policy framework and its implication on 2.0 web-based participation.

486. Archaeological salvage in transmission line

Juan Carlos Manzanilla Haas

During this transmission line's construction, archaeological salvage was performed in order to recover the cultural evidence that could be affected by the construction work.

488. River project EIA with limited hydrological data

Romina Martinez Velarde, Marco Gutierrez Gonzalez, Javier Clausen Silva, Luis Casas de la Pena, Paulina Barreto Heredia, Margarita Gutierrez Vizcaino, Alessia Kachadourian Marras

This case study in Western Mexico presents results on hydrological evaluation on a river's complex drainage system performed with limited information for impact assessment.

520 Natural systems changes through GIS and EIA

Marco Mijangos, Antotonieta Gomez, Pilar Saldaña

Geographic information systems are tools to facilitate studies requiring high spatial accuracy in environmental impact assessment.

106. Non-compliances in projects subjected to EIA

Cyrille Valence Ngouana Kengne, Desmond Saha Tchoffo, Marius Giscard Babagnak

Compliance and enforcement are critical challenges in construction projects subjected to EIA.

518. Health risks assessment of PCBs in Romania

Emilia Maria NICIU, Mihai Lesnic, Klaus Fabritius, Bogdan Constantin Stolica, Adriana M. Bors, Mihaela Dragusanu, Carmen Munteanu

PCB-contaminated oil from transformers and capacitors is an important pollution source. Acute dermal toxicity study showed no threshold level. A correlation between occupational disease and transformer numbers was observed.

191. Hydroecological study to aquifer remediation

Juan Manuel Nieto, Melvin Hernandez, Francisco Gama

This study presents a free-granular-aquifer affected by LNAPL class. In order to understand the pollutants' underground migration, it was made an hydro-geological characterization.

294. Coverage of health in SEA guidelines and tools

Julia Nowacki, Rainer Fehr

Up to now, the coverage of health and the inclusion of health experts in SEA is rather limited. Dedicated guidelines and tools seem to be needed.

165. Petroleum development and biodiversity conservation

Isaiah Owiunji, Carys Jones, Richard Kingston

Oil and gas; biodiversity.

180. Environmental restoration in hydropower La Yesca

Teodoro Platas Henández, Francisco Javier Hernández Álvarez

In Mexico, Comision Federal de Electricidad and National Commission of Forestry collaborate for promoting social participation for afforesting/conserving soil of degraded lands in area where HP La Yesca is constructed.

25. Current research on ex-ante policy IA in Mexico

Aranka Podhora, Diana González Olivo

It is necessary to strengthen research work on ex-ante policy IA in Mexico in order to assess policy impacts on sustainability across sectors and to improve policymaking processes.

261. Scoping effectiveness evaluation in SEA

Alexandra Polido, Tomás Ramos

An evaluation on how the SEA scoping phase is developed, using as case study a sample of Portuguese scoping reports.

58. Changes in hydrologic regime of Aibi Lake

Yibing Qian, Zhaoning Wu

The changes in the hydrologic regime of Aibi Lake, under the common action of climate and human activities, have some significant influences on the structure and function of wetland-desert ecosystems.

320. The EA Biodiversity Data Publishing Portal

Reuben Roberts

The EA Biodiversity Data Publishing Portal: encouraging users to publish data without payment, specific enough to be useful (South Africa) but still globally reusable, and low cost, just in case!

452. Social participation mechanisms

Claudia Rosas

Participatory approaches open spaces for more careful decision making and outcomes of greatest benefit in order to approach a common good, reducing social uncertainty of the project.

107. Application of BBOP Program

Beatriz Silva, Asahanti Parada

Biodiversity offsets offer potential mechanisms to balance the impacts of development activities in the conservation of biodiversity, the sustainable use and the fair and equitable sharing of its benefits.

108. Internalization of environmental services

Beatriz Silva, Celia Lopez

The different activities associated from development are usually associated with unintended negative impacts on the surrounding environment and affecting environmental services.

139. Landscape and environmental impact assessment

Beatriz Silva Torres, Miguel Castillo González, Ma. Elena Cuevas Félix

Landscape assessment is important to control the environmental impact that certain plans and projects can produce, particularly when industrial and public infrastructure is projected.

465. Case of public environmental review in Belarus

Alla Sushko

A case of public environmental review in Belarus conducted recently by environmental NGOs to challenge state environmental review results on a nuclear power plant development.

116. Resource mapping as public involvement tool

Basile Tatsabong

Participatory resource mapping can increase comprehension and involvement of uneducated public in an EIA process.

362. Joint EIA assessment in Iceland

Thoroddur Thoroddsson, Jakob Gunnarsson, Rut Kristinsdóttir, Sigmar Steingrímsson, Sigurdur Asbjörnsson

Joint EIA assessment for 4 projects in Northern Iceland, involving two geothermal power plants, aluminium smelter and overhead power lines. Prerequisites for the assessment process explained and lessons learned.



78. Pipeline risk assessment for responsible development

Vincenzo Torretta

The paper describes a method to evaluate territorial compatibility of pipelines, useful for a responsible development of oil and gas pipeline networks.

115. Biodiversity GIS: Land-use decision support tool

Selwyn Willoughby

The South African National Biodiversity Institute has developed an on-line land-use decision making tool to streamline the inclusion of biodiversity considerations into land-use decision-making.

84. Effectiveness and quality of SEA in China

He Xu, Kin Che Lam

The results indicate that SEA is only relatively effective in preventing or alleviating adverse environmental impact of plans rather than influencing decision-making process.

143. JICA Technical Cooperation Project on Resettlement

Akira Yamashita, Seiji Kurokawa, Sopheap Chhorn, Sophan Yen, Sophal Kong

We introduce the contents of JICA's project on Capacity Enhancement of Environmental and Social Considerations for Resettlement in Cambodia, including basic resettlement procedures, which aims at standardization for resettlement implementation.

190. The use of a quality index to hyper-saline lagoon

Fernando Zarzosa, Raúl Soto, Laura Deyta

The objective of this paper is to propose a quality index applicable to hyper-saline lagoon bodies developed to a industrial installation in the Mexican Pacific.

3. EIA on the Biodiversity Conservation Project

Huarong Zhou

EIA on the China/GEF Project "Sustainable Management and Biodiversity Conservation in the Lake Aibi Basin" in Xinjiang.

Technical visits

About technical visits

Participants must be pre-registered and pre-paid to participate. Written cancellations prior to 30 April qualified for a refund, less a 25% administration fee. No refunds are issued for cancellations after 30 April. Prices for technical visits are shown in US dollars.

All prices include transportation, guide, fees, taxes and lunch. The price of meals includes service charge, but additional tips are welcome. No alcoholic beverages are included.

Casual clothing and walking shoes are recommended.

Tours depart from the Puebla Convention Center. Plan to check in for the visit a minimum of 15 minutes prior to the noted departure time.

IAIA, the organizing committee, and the venue will not be responsible for medical expenses, accidents, losses or other unexpected damage to property belonging to conference participants, either during or as a result of the conference and during all tours and events. Participants are strongly advised to arrange their own insurance for health and accident, lost luggage and trip cancellation.

Participants will be required to sign a liability release waiver upon check-in for the visits.

A / E | TEHUACÁN-CUICATLÁN BIOSPHERE RESERVE AND THE WATER MUSEUM

The visit starts with a 2.5 hour trip to the town of Zapotitlán, located to southeast of Puebla City, in the Tehuacán-Cuicatlán Biosphere Reserve. The Reserve covers 490,187 ha in the extreme southeastern portion of the Puebla state and the northeast portion of the Oaxaca state. It is rich in diversity of flora, containing 910 plant genus and 2,700 vascular species; plant endemism is estimated at 30%. In Zapotitlán the group will visit the Helia Bravo Hollis Botanical Garden. This unique garden contributes to the conservation of biological heritage and species of flora and fauna of the site. Within the garden is an Environmental Centre, bird watching tower and trails, and souvenir shop.

Transfer to San Juan Raya (30 minutes), within the same Biosphere Reserve. The community of San Juan Raya (around 200 people) offers its visitors a look at the past with the presence of seventy dinosaur footprints that were discovered only recently, and the Park of Turritellas, where you can see fossils of sponges, clams, sea urchins, snails of various sizes that are approximately 115 million years old.

Transfer to the Water Museum, near the city of Tehuacán, for lunch. The museum aims to create awareness among visitors about the water issue, displaying the historical evolution of culture hydro-agro-ecological giving rise to the Mesoamerican civilizations and to recovering the history of water and the cultivation of amaranth in the valley Tehuacán-Cuicatlán and Mixteca. There a speaker will address the visitors with a successful case history of ecological regeneration of the watershed where the museum is located and the social organization for production they have developed. Return to Puebla City: around 1.5 hours trip.

**Sunday, 29 May (A)
Saturday, 4 June (E)**

Depart 07:00 | Return 17:30

Minimum 10 | Maximum 33

Price \$70

Price includes a box breakfast and lunch at the Water Museum.

Special note: Participants should take a hat/cap, use sunblock, and wear long sleeved shirts and long trousers (no shorts please, because of the spiny vegetation). Take one or two bottles of water with you.

B | AFRICAM SAFARI WILDLIFE CONSERVATION PARK

Located only 15 km from the event venue, Africam Safari is considered the best park of its kind in Latin America. Since its foundation in 1972, the Park has been committed to inspire individuals and organizations to protect our natural environment. Through community and internal conservation programs, people are challenged to take action and to emulate nature where everything is used and nothing is wasted.

Through an interactive talk with specialists from the Park Department of Environment, Security and Sustainability, you will have the opportunity to learn about their sustainability strategic plan 2009-2030, and the actions that are being implemented to reach the "Triple 0" goal, which refers to generating zero waste, zero CO2 emissions and zero wastewater discharges by the year 2030.

The talk will take place in an elevated bamboo cabin, surrounded by African lions and with a breathtaking view of oak forests and the stunning Valsequillo Lake.

The visit to Africam Safari includes a two-hour safari-type expedition, where free-roaming rhinos, tigers, giraffes and more than 3,000 animals from over 250 species are waiting to meet visitors.

Additionally, you will enter the Adventure Zone where, you can experience a freeflying bird show, take a walk in a footpath among kangaroos, observe the fun-loving meerkats, and be astonished with the majesty of X-Mahana, the butterfly recint, secluded in a magnificent tropical forest.

Sunday, 29 May

Depart 09:00 | Return 16:00

Price \$50

Price includes box lunch.

Minimum/Maximum 20-39

Special note: Participants should take a hat/cap and sunblock.

C / F | TEOTIHUACAN

Teotihuacan, which means “the place where men become gods,” is an archaeological zone that lies 48 km (30 mi) northeast of Mexico City. Travel time from Puebla: 2 hours.

These ruins are among the most important pre-Hispanic ruins in the Americas due to their masterful urban layout, the monumental architecture and the strong religious and political influence that Teotihuacan held over other cities. In addition, it is one of Mexico's most visited archaeological sites. Magnificent ceremonial, social, civic and residential structures were built around the ancient metropolis' main avenue. Among the most impressive constructions are the Pyramids of the Sun and Moon, the Temple of the Plumed Serpent (Quetzalcoatl), the Patio of the Jaguars, the Quetzalcoatl Palace and the Palace of the Citadel. Many of the edifices are adorned with remarkably well-preserved murals.

Not only does Teotihuacan boast one of Mesoamerica's most splendid examples of ancient architecture, but it is also a very spiritual place, according to those who continue to observe pre-Hispanic traditions. On March 21, when the spring equinox occurs, visitors descend on the site to absorb its strong energy.

Monday, 30 May (C)
Saturday, 4 June (F)

Depart 08:00 | **Return** 18:00

Minimum-Maximum 30-48

Price \$65
Price includes lunch.

Special note: Participants should take a hat/cap and use sunblock.

D | CHOLULA & PUEBLA

Morning: Guided survey of the archeological Cholula complex, located about 8 km west of Puebla. Ancient Cholula has been for centuries a major center for Mesoamerican trade, commerce and religion. A great city once stood at the foot of what appears to be an earthen hill surmounted by a church, which was built by the Spanish in colonial times (1594). However, this hill is, in fact, the largest pyramid ever built, covering over 18 ha. Called the Great Pyramid of Tepanapa, it was constructed in successive stages over an 800-year period (1-800 A.D.).

Transfer to visit the churches of San Francisco and Santa Maria Tonanzintla Acatepec near Cholula, both beautiful examples of the Mexican Baroque style.

Transfer to Puebla City for lunch.

Afternoon: Guided pedestrian tour through the streets of the historic center of Puebla, designated a World Heritage site by UNESCO to see the Cathedral of Puebla, the Palafoxiana library, the city hall, and the Chapel of the Rosary, which is decorated with sheets of 25 carat gold and is one of the greatest achievements of Baroque New Spain. The walk ends visiting the Parian crafts market.

Monday, 30 May

Depart 09:30 | **Return** 18:30

Minimum-Maximum 15-43

Price \$65
Price includes traditional lunch at El Ranchito restaurant.

Special note: Participants should take a hat/cap and use sunblock.

G | CUETZALAN, MAGICAL TOWN POST-CONFERENCE TOUR

Day 1: Puebla / Apulco / Cuetzalan

Depart from Puebla and stop in Apulco at La Olla waterfall and enjoy the beautiful scenery and tasty regional food.

Continue to Cuetzalan in the afternoon and register at the hotels. Walk through its streets and visit the San Francisco church and our Lady of Guadalupe church, also known as “the Jars church” because its tower is decorated with jars made out of clay.

Dinner at the Jars restaurant and watch the traditional Flyers Dance. (The dance show is not available if it rains.)

Day 2: Cuetzalan

Visit Youalichan archaeological zone, which is a Totonac ceremonial center and has a close similarity to the better-known archaeological site of Tajin by the type of pyramidal structure formed on the basis of niches. Dedicate the rest of the morning to walk the “Blue Trail,” an interpretive trail through a preserved area in order to explore the characteristics of the flora, fauna and landscape typical of a mesophile or cloud forest and observe some ecological restoration experiences.

Lunch, followed by a free afternoon to enjoy the people and the traditional indigenous street market.

Day 3: Cuetzalan / Cantona / Puebla

Leave Cuetzalan for Cantona, a spectacular newly-excavated archaeological site believed to be the largest urban center yet discovered in Mesoamerica. Cantona covers 12 km² that are divided into three urban areas. The ruins includes a roadway network of over 500 cobblestone causeways, over 3,000 individual patios or residences, 24 ball courts and an elaborate acropolis with many ceremonial buildings and temples.

Trip back to Puebla.

Duration 3 days, 2 nights
Saturday, 4 June - Monday, 6 June

Depart 09:00 Saturday
Return 15:00-16:00 Monday

Minimum 10 **Maximum** 38

Price \$380 single occupancy
\$345 double occupancy

Price includes two nights accommodation with breakfast, two lunches, one dinner, entrance to the attractions mentioned in the itinerary, a leisure activity, transportation and guide in English.

The technical aspects of C/F, D and G will be in English and A/E and B will be explained in Spanish with translation into English.

Special meetings

Ibero-American Day: The State of EIA, SEA and the MDG

Conveners: *Mauricio Athié (International Finance Corporation), Elizabeth Brito (Interamerican Development Corporation), Luis E. Montañez Cartaxo (IAIA11 Program Chair), Glenn Morgan (World Bank)*

Impact assessment was established in the legislation of many Ibero-American countries 20 years ago or longer in some cases. The environmental impact assessment (EIA) process has evolved significantly since then, but there are aspects that in many countries continue to have weaknesses: implementation of the scoping phase, public participation, appropriate time of initiation of environmental studies, and environmental and social impacts follow-up.

Strategic environmental assessment (SEA) is receiving a strong impetus in the countries involved. There are different approaches to its way of implementation (mandatory or voluntary) and structure (SEA based on the methodology of the EIA or incorporated in the planning process to identify risk scenarios and opportunities for development).

Regularly the UN takes stock of the global implementation of the Millennium Development Goals (MDG). How are the Ibero-American countries performing regarding Goal 7: environmental sustainability?

These issues will be discussed with the participation of renowned experts from Latin America, Spain and Portugal (officials from regulatory agencies, consultants, planners, promoters and developers of infrastructure, and members of the academic and research sectors). The rights and wrongs taken in the implementation of EIA and SEA and its trends and progress on environmental sustainability will be fleshed out. This will be based on position papers and their discussion by invited speakers and panelists.

Additionally but not least, one of the forum goals is to establish a network of experts from the Ibero-American region to strengthen the practice of impact assessment in the countries involved.

World Bank/IFC Workshop

Conveners: *Stephen F. Lintner (World Bank), Reidar Kvam (IFC) and Patty Miller (IFC)*

Session I will focus on the recently-launched process for the global review of good practices and the updating and consolidation of the Environmental and Social Safeguard Policies of the World Bank.

Session II will focus on IFC's performance standards with special emphasis on impact assessment and management.

Friday, 3 June | 13:00-17:00

Auditorium

Pre-registration by 11 May required.

PROGRAM

08:30-09:00	Participant registration
09:00-09:10	Opening remarks
09:10-10:30	The environmental impact assessment process and the achievement of the Millennium Development Goals
10:30-11:00	Coffee break
11:00-12:30	Evolution of the impact assessment process in Ibero-America: Institutions, regulatory framework, and institutional capacity
12:30-13:30	Lunch
13:30-15:00	The EIA process in Ibero-America: Case studies
15:00-15:30	Coffee break
15:30-17:00	Discussion panel. Strategic environmental assessment: Challenges and opportunities for its implementation in Ibero-America
17:00-17:45	Establishing a network of experts from Ibero-America
17:45-18:00	Conclusions

Monday, 30 May | 09:00-18:00

Angelopolis auditorium

Registration includes morning and afternoon coffee breaks, lunch.

Premier booths

Consultancy and Engineering



DHV Environment and Transportation

The DHV Group is a leading engineering consultancy known for the highest levels of expertise and leadership in innovation and sustainability. We serve clients through local delivery of world-class solutions. The DHV Group is internationally renowned for providing integrated solutions to complex problems, especially in the fields of Transportation, Aviation, Water and Environment. www.dhv.com



Instituto Mexicano de Tecnología del Agua

The Mexican Institute of Water Technology (IMTA), created in 1986, is coordinated by the Ministry of Environment and Natural Resources (Semarnat). Its mission is to produce, instill, and disseminate knowledge and technology for the sustainable water management in Mexico. IMTA has international alliances to train professionals and transfer technology. Its multidisciplinary professionals serve to both public and private institutions and companies on several topics related to EIA, hydrobiology, toxicology, water quality and treatment, hydraulics, hydrology and water management in agriculture, cities and industry. www.imta.gob.mx

Booths

- Golder Associates
- Netherlands Commission for Environmental Assessment
- IAIA12

Affiliate posters

- Ireland & UK Branch
- IAIA-Italia
- Association québécoise pour l'évaluation d'impacts (AQEI)
- South Africa (IAIAsa)
- Western and Northern Canada (IAIA-WNC)
- Mozambique
- Korea
- Zambia
- Nigeria
- Germany
- IAIA-Spain
- New Zealand Association for Impact Assessment (NZIAA)



Tables

- State of Puebla Tourism Secretariat
Stop by the table for hours and information on services provided.
- IAIAConnect
Hours: Lunch and coffee breaks 1-3 June.
Two demonstration sessions will also be held. See page 39 for details.
- FUNIBER (Fundación Universitaria Iberoamericana)

Note: A table is provided for IAIA members to display information, distribute conference papers, or announce/distribute non-commercial items. Delegates must be in attendance personally to display materials.

About IAIA

The International Association for Impact Assessment was organized in 1980 to bring together researchers, practitioners, and users of various types of impact assessment from all over the world.

IAIA members number over 2,500 and reside in over 120 countries. IAIA activities are carried out locally and regionally through its extensive network of Affiliates and Branches.

IAIA's Vision: IAIA is the leading global network on best practice in the use of impact assessment for informed decision making regarding policies, programs, plans, and projects.

IAIA's Mission: IAIA provides an international forum for advancing innovation and communication of best practice in all forms of impact assessment to further the development of local, regional, and global capacity in impact assessment.

IAIA's Values: IAIA promotes the application of integrated and participatory approaches to impact assessment, conducted to the highest professional standards.

IAIA believes the assessment of the environmental, social, economic, cultural, and health implications for proposals to be a critical contribution to sound decision-making processes, and to equitable and sustainable development.

IAIA as an organization promotes the following:

- We compile or review impact assessments with integrity and honesty, and free from misrepresentation or deliberate bias.
- Our personal beliefs should not interfere with fair representation of the potential impacts of policies, plans, programs, and projects.
- We uphold the principle of freedom of access to information and the right of citizens to participate in decisions.
- We subscribe to a holistic approach to impact assessment.
- We seek sustainable and equitable outcomes from human actions that affect ecosystem and social functions.
- We will seek to encourage a process of impact assessment that averts infringement of the human rights of any section of society.
- We do not condone the use of violence, harassment, intimidation or undue force in connection with any aspect of impact assessment or implementation of an intervention arising from impact assessment.
- We conduct impact assessments in the awareness that different groups in society experience benefits and harm in different ways. We seek to take gender and other social differences into account, and we are especially mindful of the concerns of indigenous peoples.
- We strive to promote considerations of equity as a fundamental element of impact assessment.
- We give due regard to the rights and interests of future generations.
- We strive for excellence by maintaining and enhancing our own knowledge and skills, by encouraging the professional development of co-workers, and by fostering the aspirations of potential members of the profession.
- We do not advance our private interests to the detriment of the public, our clients or employing institutions.

Greening the conference

Does IAIA practice what it preaches? Yes, and more so every year. Where practical and possible, IAIA takes the following steps and more to mitigate the impacts of our conferences:

- Limit printed materials; communicate via e-mail and web
- Contract with venues that participate in green programs
- Use bulk servings and pitchers rather than individual bottles; use china and silverware rather than disposables
- Provide recycling bins for discarded paper products; reuse name badge holders
- Ask delegates to confirm their attendance at events and functions to reduce waste and leftovers
- Provide evening sustainable dining options
- Encourage delegates to purchase carbon-off set credits for their flights



ANNUAL GENERAL MEETING

Wednesday, 1 June | 12:40-13:30 | Auditorium

This is the annual business meeting of the Association. All meeting participants are encouraged to attend, learn more about the operation of the organization, and ask questions.

2011 AGM Agenda

1. Welcome, introductions, and confirmation of 2010 AGM minutes.
2. IAIA 2010/11: What have we done and where are we going?
3. Money matters.
4. IAIA Presents Excellence: Rose-Hulman and Outstanding Service Awards
5. Any debate? Items submitted in writing by members.
6. Have your say: Informal discussion of matters that members wish to raise.
7. Closing remarks.

COUNCIL MEETING

Thursday, 2 June | 12:40-13:30 | La Pastora

The IAIA Council serves as an advisory resource to the IAIA Board of Directors. The Council is composed of the Board, all Committee chairs, Section chairs, representatives of Affiliates and Branches, the CEO and Headquarters representatives, and the Conference Program Chair(s) for the current-year conference and any future known conferences. Council meetings are open meetings; all IAIA members are encouraged to attend.

NOTES

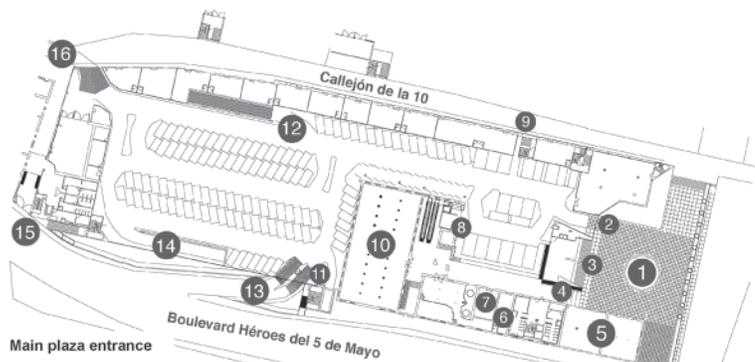
Centro de Convenciones Puebla



- | | | |
|--------------------------|----------------------|---------------------|
| 1 Angelópolis auditorium | 6 Main balcony | 11 Analco room |
| 2 Chacuaco plaza | 7 La Esperanza room | 12 La Luz room |
| 3 La Concordia | 8 La Oriental room | 13 El Alto room |
| 4 El Parián | 9 La Violeta room | 14 Kitchen |
| 5 Hall | 10 La Constanca room | 15 Service corridor |
- (R) Registration

Upper level

Centro de Convenciones Puebla



- | | | |
|---------------------------------|---|----------------------|
| 1 Main plaza entrance | 7 La Cruz room | 12 Basement entrance |
| 2 Parking lot entrance | 8 Walking access to rooms | 13 Parking lot exit |
| 3 Main stairways | 9 Parking lot exit for pedestrians | 14 Basement exit |
| 4 Basement exit for pedestrians | 10 La Pastora room | 15 Emergency exit |
| 5 Offices | 11 Basement entrance and exit for pedestrians | 16 Parking lot exit |
| 6 La Xonaca room | | |

Ground level

Conference tips and information

■ Definition of conference terms

Annual Conference: An extended collection of IAIA and IAIA-related events within a week to two-week time frame, including special meetings, technical visits, short courses, and social events.

Annual Meeting: The core of the annual conference; typically 3-4 days devoted to plenaries, concurrent sessions, and IAIA business.

Session: A block of time during which presentations are made on a single topic.

Theme forum: Smaller than plenaries and larger than concurrent sessions, theme forums bring together on a particular topic the various aspects of impact assessment and examine how those aspects apply to different sectors and issues.

Concurrent session: Sessions running in parallel, during which approved papers are presented by authors and discussed by participants.

Paper presentation: The oral summary of a paper within a session.

Poster: Visual presentation of a paper or project by means of graphics, photos, data, and a small amount of text on a display area. Posters are self-explanatory, but poster authors are available to answer questions during the session dedicated to poster viewing.

Paper session: A chaired paper session allows up to 4-5 presentations on a related topic. Depending upon the number of presentations, each presenter is typically allocated 15-20 minutes, including time for specific questions. Ideally, time is also be allocated following the presentations for more general questions and open discussion.

Workshop: A workshop is similar to a paper session except that more time is allocated for general discussion following the presentations. This means that there may only be 2-3 presentations and/or presentations may be shorter.

Panel discussion: Similar to a workshop, except that panel members are invited, and ideally represent different viewpoints on the topic at hand. Following brief presentations, panel members debate issues and respond to questions put forward by members of the audience in a chaired discussion.

Indaba: For issues that arise during the conference and that practitioners want to pursue through informal follow-up discussions. During the morning, participants post potential topics for discussion, and individuals interested in each topic sign up for the related discussion. If a topic generates sufficient interest, space is made available for the discussion to take place in the late afternoon.

■ How to get the most from this conference

- **Inform, prepare, and orient yourself.** Check in early and then take time to walk through the venue to familiarize yourself with locations of activities before the rush of the conference begins. Read through the program carefully and highlight the sessions you want to attend. Read the summaries and prepare questions for the speakers.
- **Make a goal sheet.** Why did you decide to register for this program? What is it you expect to gain? Take a moment to think about your goals. Then clarify them by writing them down in your program. Look over your goal page throughout the conference; it will help you keep your goals focused.
- **Meet other people.** This is an excellent opportunity to expand your network of contacts. Sit next to someone you don't know, even if you've come with a group. Mingle during the breaks. Exchange business cards. Every participant here has a specific area of expertise; find out what it is instead of chatting about the weather. Let us suggest that one of your goals be to meet at least one person each day whom you intend to communicate with again on a business or social basis.
- **Participate!** Ask questions. Make contributions. Actively participate in the exercises. Consider the meeting room to be a "mental gym" where it's okay to run, fall, and get up again. You'll benefit much more by participating in the game than sitting on the sidelines.
- **Relate what you learn to yourself.** Don't settle for "abstract" knowledge. Have your current problems, conflicts and interests foremost in your mind. As you learn new approaches and techniques, relate them to your own situation.
- **Make a commitment to review your notes.** Right now, take out your calendar and make a one-hour appointment with yourself in a few weeks to "retake" the program. Don't put your good ideas away with your notes. And consider reviewing your notes each evening during the conference while your ideas and enthusiasm are fresh.
- **Write a "Dear Boss" letter.** If your boss or company sent you to the conference, thank them with a letter. Include a list of your action ideas based on your action plan and goals - what you intend to do or change as a result of what you have learned. If you paid your own way, still send the letter. It will show how committed you are to your own professional growth.
- **Enjoy yourself.** Start relaxed (rest and rehydrate to help recover from jet lag) and you'll leave refreshed, inspired and recharged. Forget about what's happening at the office. This is your conference. Get all you can out of it.

■ Publications

Participants list: A list of pre-registered participants is provided in the delegate packets. A final list of participants will be posted online following the conference.

Proceedings: IAIA will be publishing reviewed and finalized papers online following the conference.

Journal: Participants are encouraged to submit their papers for possible publication in IAIA's journal, *Impact Assessment and Project Appraisal*. See www.scipol.demon.co.uk/iapa.htm for submission information and attend the session on "Submitting papers to IAPA" on Tuesday at 14:30 in Alto A.

■ Presentation equipment

LCD (PowerPoint) projectors and laptop computers are provided in each session room.

Presenters were responsible for arranging and paying in advance for any other equipment needed for their presentations by 31 March. Availability of equipment for on-site requests is not guaranteed, and payment is required on-site.

Presenters load their own files on the laptops provided; this should take no more than 2 minutes. For security reasons, the session rooms and laptops may not be available until the break just prior to the start of the sessions, so plan to load your presentation during the break preceding your session. PowerPoint files should be saved to memory stick. Preparation of files on a Mac computer is not recommended. Testing of a Mac presentation on an IBM or HP should have been done prior to arriving at the conference, and Mac presenters must provide their own VGA connectors.

■ Video/Audio policy

Individuals officially identified by IAIA may photograph, videotape, and/or audiotape conference events. By attending the conference, you agree to allow your image to be used by IAIA.

During the session and abstract submission process, session conveners and presenters indicated their permission for recordings of their sessions or presentations to be broadcast online by IAIA; those preferences will be honored.

Individuals are not permitted to record with personal audio or video equipment or other recording devices such as cell phones, cameras or recorders, without prior permission from IAIA.

■ Puebla Convention Center hours

The convention center's closing time is 19:00. **Note that the convention center common areas are open to the public;** your name badge and/or tickets may be required for some events, activities and meals.

Conference tips and information

■ Business services

Presenters are responsible for supplying their own session or poster materials. Because of rental costs that would necessarily be passed on to all delegates in the form of higher registration fees, IAIA does not provide copying, printing, computers or other business services on-site. If you need these services, please check with your hotel.

■ Meals

Based on the data collected via registration forms, IAIA has estimated a percentage of vegetarian or special meals. **This does not guarantee accommodation of individual preference or special need.**

Tickets for meals are provided upon check-in.

■ Registration and fees

All conference participants, including delegates, sessions chairs, invited speakers, organizers, exhibitors, and paper and poster presenters, are required to register for the conference at the full, student, or exhibitor registration rate.

Full and student registration fees entitle delegates to attendance at all sessions, coffee breaks, lunches 31 May - 2 June, participants list, delegate satchel, online conference proceedings, and special events, unless an additional fee is noted.

■ Name badges

All conference participants, including speakers, exhibitors, and media, receive a name badge at check-in. The badge is your official pass and must be worn to ensure entrance to conference activities. Please drop off your badge holder at the registration desk at the end of the conference: IAIA will reuse/recycle!

■ Payment and refund policies

Fees are accepted by MasterCard, Visa, or American Express and are charged in US dollars (USD). Checks or money orders made payable to IAIA in USD drawn on a US bank are also accepted, as well as cash in USD or Mexican Pesos (M\$).

Any registration after 11 May 2011 must be made on-site. Official receipts for registrations made after 11 May 2011 will be issued after the conference.

IAIA will refund registration fees upon written request received before 30 April 2011. A US\$75 processing fee will be retained. After 30 April 2011, no refunds will be issued for cancellations or no-shows. Substitutions for paid registrants may be made in writing without financial penalty. Refunds will be issued after the conference.

■ Quickpass

All conference participants whose registration and fees were received by 28 February were mailed a purple "Quickpass." Look for purple signs designating the Quickpass registration desk and show your Quickpass for express check-in!

■ Insurance and liability

IAIA, the organizing committee, and the venue will not be responsible for medical expenses, accidents, losses or other unexpected damage to property belonging to conference participants, either during or as a result of the conference and during all tours and events. Participants are strongly advised to arrange their own insurance for health and accident, lost luggage and trip cancellation.

■ Information Desk

The State of Puebla Tourism Secretariat will host an information desk. Stop by their table for hours and services.

■ Conference Evaluation

An evaluation form will be sent electronically to all participants following the conference.

■ Language

English is the primary language used at IAIA conferences. However, both plenaries, the theme forums, and the Ibero-American Day will have English-Spanish translation. The keynote address by Pedro Álvarez Icaza will be translated from Spanish to English.

General information

■ Transportation to and from airport

The "Estrella Roja" bus from the Mexico City airport to Puebla is a luxury coach. These buses run from the two airport terminals about every 30 to 60 minutes. The departure schedule is available at <http://www.estrellaroja.com.mx/english/expreso-aeropuerto.php>.

When you buy your bus ticket (just inside the door where the buses are parked at the airport), it is stamped with a departure time. Buses generally make the trip in two hours, except during weekday heavy traffic periods (19:00-21:00) when it will take longer.

The fare is about \$17 US each way; snacks and a beverage are provided. It is best to buy tickets for buses that take you to the bus station called 4 Poniente (abbreviated 4 Pte) in Puebla, which means 4th Street West. After leaving Mexico City, the buses stop only at the bus station in Puebla. There is a taxi stand inside the bus station in Puebla where you arrive. You pay for your cab fare to your hotel right there – not to the taxi driver. Depending on the distance, the trip may cost between \$4 and \$8 USD plus tip.

■ Taxes

A value-added tax (VAT) at the general rate of 16% is payable on sales of goods and rendering of services and rents; it is usually included in the price of goods. Hotels charge an additional 2% lodging tax. Foreign tourists who leave the country through air or sea may claim a Mexican value-added tax refund for the acquisition with credit or debit card of merchandise to be exported, provided several conditions are met.

■ Smoking

Smoking in public places is prohibited.

■ Business hours

In Puebla shops typically open at 09:00 and close at 20:00.

■ Tipping

Tipping is woven into the fabric of Mexican social culture. Most people working in Mexico's service industries including porters at the airport, the waitress at the café/dinner, the attendant in the rest-room and the service personnel at your hotel, earn modest wages and rely upon tips "propina" to augment their weekly pay-packet.

While you may want to tip an additional amount, it's best to know if the tip was already included in the bill. Before you tip in restaurants, bars, and even snack bars in large hotels, check your tab and see if a service charge has already been added to the total. Service charges are quite common.

You should tip between 10 and 15 percent of the check. The chain hotels already include in their rates tips equivalent to \$3 USD a day for room attendants (maids) and also \$3 USD for bell boys when checking in and when checking out.

■ Visitor's Permit FFM Fee

Mexico charges a fee to all tourists and business visitors arriving in the country. The fee is approximately US\$22, and the money collected is handed to the Tourism Ministry to promote Mexican tourism.

Airlines normally collect the permit fee on behalf of the Mexican government and include the cost within the total airfare (under 'taxes and surcharges'), so in the majority of cases, there will be no need for you to pay the fee separately.

THE ONLY INTERNATIONAL, INTERDISCIPLINARY, EDUCATIONAL CONFERENCE DEDICATED TO ADVANCING THE ART AND SCIENCE OF IMPACT ASSESSMENT!

Program committee

Luis E. Montañez Cartaxo (Chair)
Consultant
Mexico

Maria A. Gómez Balandra
Mexican Institute of Water
Technology (IMTA)
Mexico

Francisco Javier Díaz-Perea
Comisión Federal de Electricidad
Mexico

Julieta Pisanty-Levy
Environmental Impact Assessment
Counseling and Training
Mexico

Eduardo Vadillo-Sánchez
Enlace Grupo de Consultoría S.C.
Mexico

Gloria Cortés-Rubio A.
Mexico

Steering committee

William Veerkamp
Environmentalist
The Netherlands

Debra Zanewich
Multilateral Investment Guarantee
Agency
USA

Iñigo Sobrini
Spanish Association for
Environmental Impact Assessment
Spain

Lea den Broeder
National Institute for Public Health
and the Environment
The Netherlands

Mireya Archila
Geoambiente
Guatemala

Luis E. Sánchez
University of São Paulo
Brazil

Pedro Álvarez-Icaza L.
Mesoamerican Biological Corridor
Mexico

CONTINENT SPONSOR



IAIA gratefully acknowledges these companies and organizations for their generous financial and in-kind support of IAIA11. By sharing their resources, these companies and organizations demonstrate their commitment to the environment and contribute to the improvement of impact assessment around the globe. When you meet a representative of these sponsors, at the conference or in the months ahead, please be sure to thank them for their contributions.

ISLAND SPONSORS



REEF SPONSORS

 **Instituto de Ingeniería, UNAM**

 **Volkswagen de México**

IAIA11 MEDIA PARTNERS



International Headquarters
1330 23rd Street South, Suite C
 Fargo, ND 58103-3705 USA
 Phone +1.701.297.7908 • Fax +1.701.297.7917
 info@iaia.org • www.iaia.org

Conference Venue

Centro de Convenciones Puebla
 Blvd. Héroes del 5 de Mayo No. 402
 Col. Centro Puebla, Puebla 72000 México
 Tel.: (222) 223-6400
 www.convenciones-puebla.com.mx

附錄二：照片集錦



Fig1 墨西哥國際機場一景



Fig2 墨西哥國際機場一景



Fig3 參訪行程安排大家體驗當地自然染之神奇

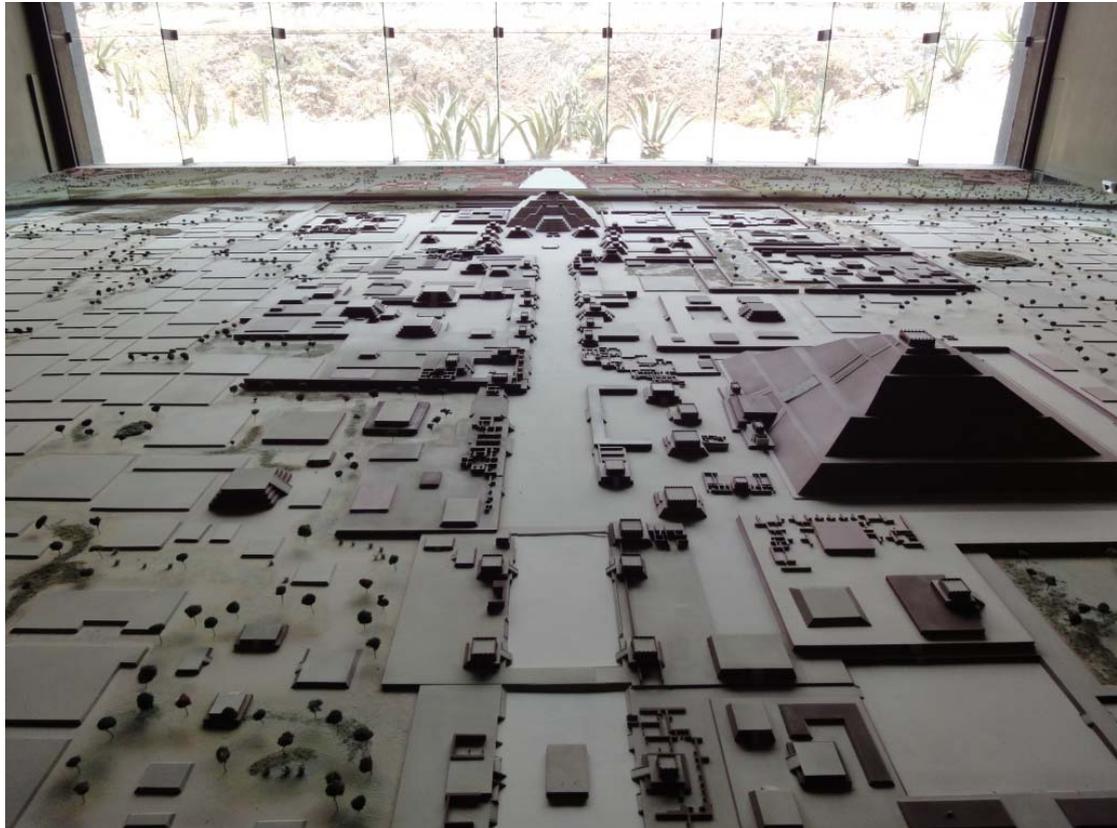


Fig4 迪奧狄華肯 (Teotihuacan) 縮小模型



Fig5 迪奧狄華肯 (Teotihuacan) 保存最完整的住宅



Fig6 迪奧狄華肯 (Teotihuacan) 住屋下的儲水空間



Fig7 迪奧狄華肯 (Teotihuacan) 一景



Fig8 迪奧狄華肯 (Teotihuacan) 住屋內一景



Fig9 馬雅金字塔 (Piramide) 一景



Fig10 馬雅金字塔 (Piramide) 一景



Fig11 會議一景



Fig12 會議一景

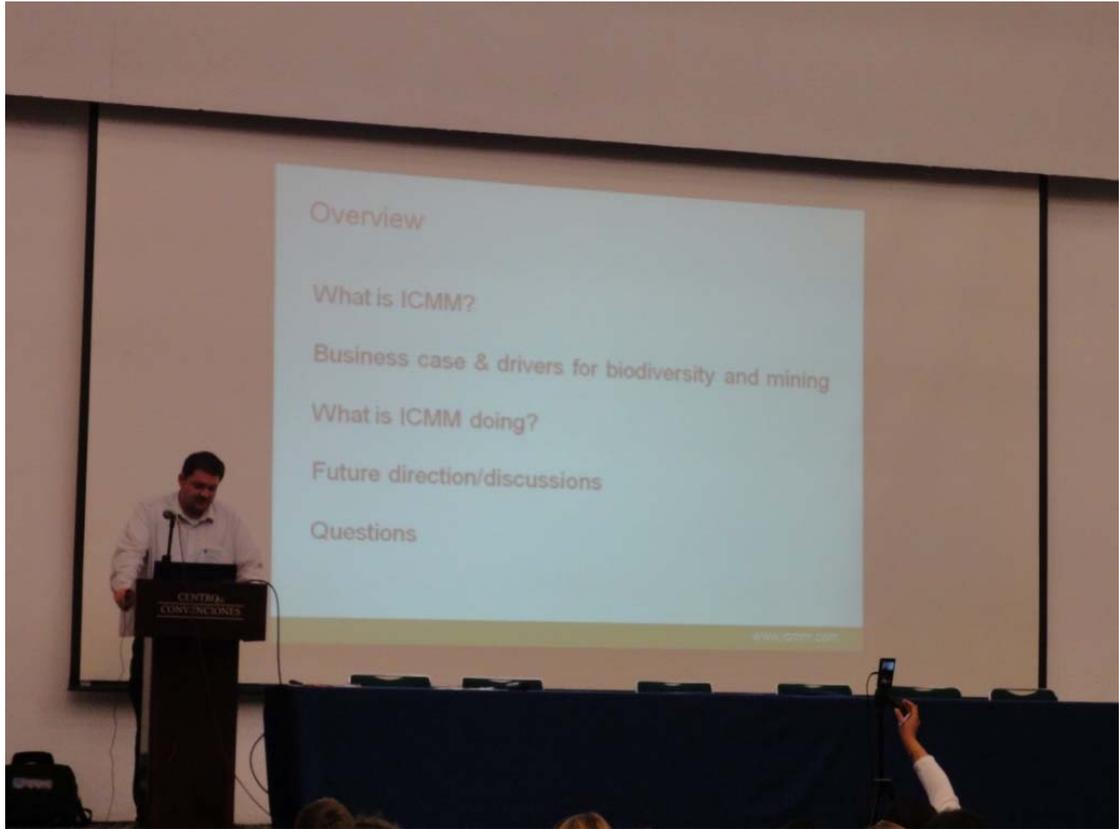


Fig13 會議一景



Fig14 會議一景



Fig15 會議一景



Fig16 會議一景



Fig17 海報展示一景

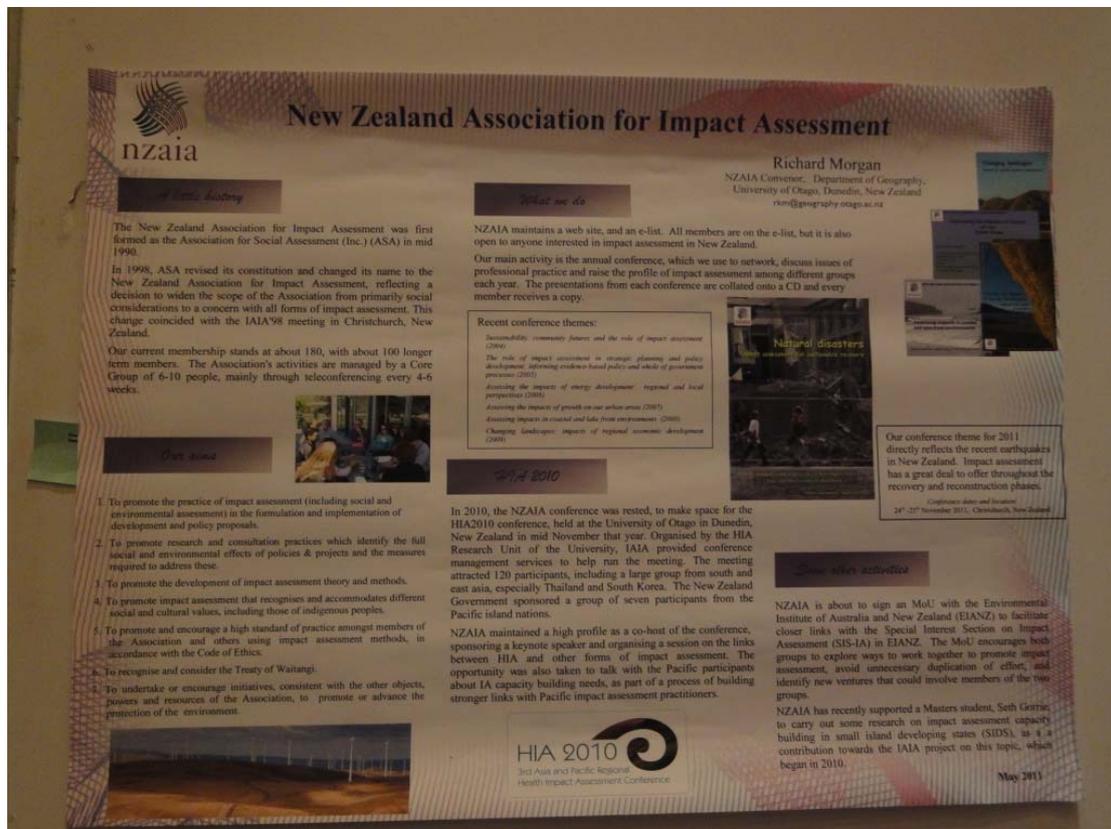


Fig18 海報展示一景

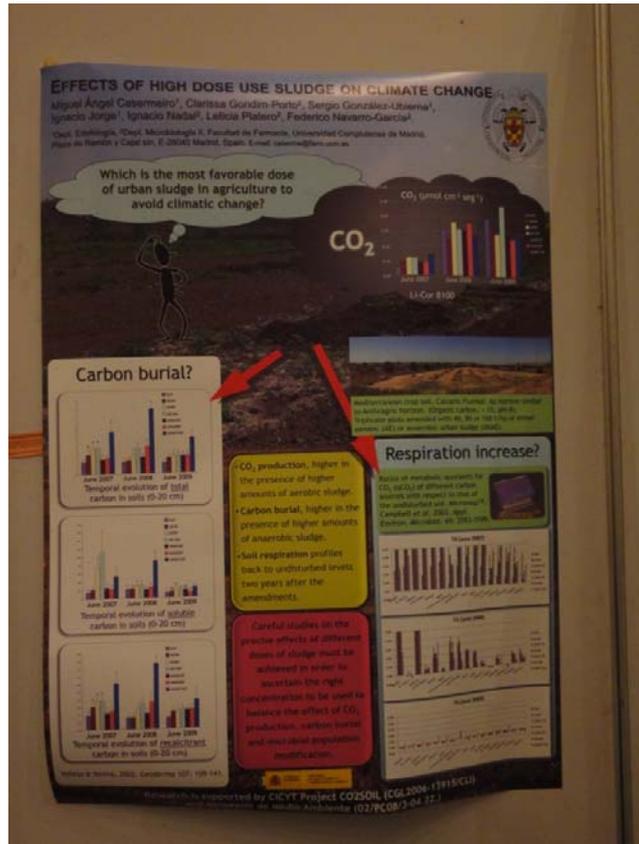


Fig19 海報展示一景



Fig20 會場用餐一景



Fig21 與會場友人交流後合照



Fig22 拍布拉（Puebla）最著名之市中心廣場（Zocalo）南邊大教堂（Cathedral）



Fig23 南邊大教堂 (Cathedral) 一景



Fig24 美洲最古老的公共圖書館 Biblioteca Palafoxiana

附錄三：論文摘要及簡報投影片

Discuss the implement of EIA promises from the developers in Taiwan

Since Environmental Impact Assessment Act (EIA Act in brief) was announced at 1994 in Taiwan, the EPA (Environmental Protection Administration) had expanded several ways for the developer to carry their promises into practice during and after the development. By the EIA Act, the developers was asked to keep their words that had written on the Environmental Impact Assessment report as well as the conclusions made by EIA committee. Through the supervisory process, government can make sure how the development was carried out, whether the promises developer made was executed or not. In 2010, for example, government has supervised 495 cases of developments, there were 34 cases which did not following the content of EIA report and violating EIA Act. According to EIA Act, these cases must take a penalty for their violation. The EPA has also set clear baseline principles for determining amounts of penalties for violations of the EIA Act. This paper will illustrate the EIA regulation about government supervision, and discuss the developers' responsibility, compulsory or voluntary.



Discuss the implement of EIA promises from the developers in Taiwan



CHANG, TUN-WAN
CHENG, HUI-WEN

Environmental Impact Assessment Act

- Article 17

The developer shall implement development activity strictly in accordance with the content of environmental impact statement (EIS), the environmental impact assessment (EIA) report and the review conclusion.



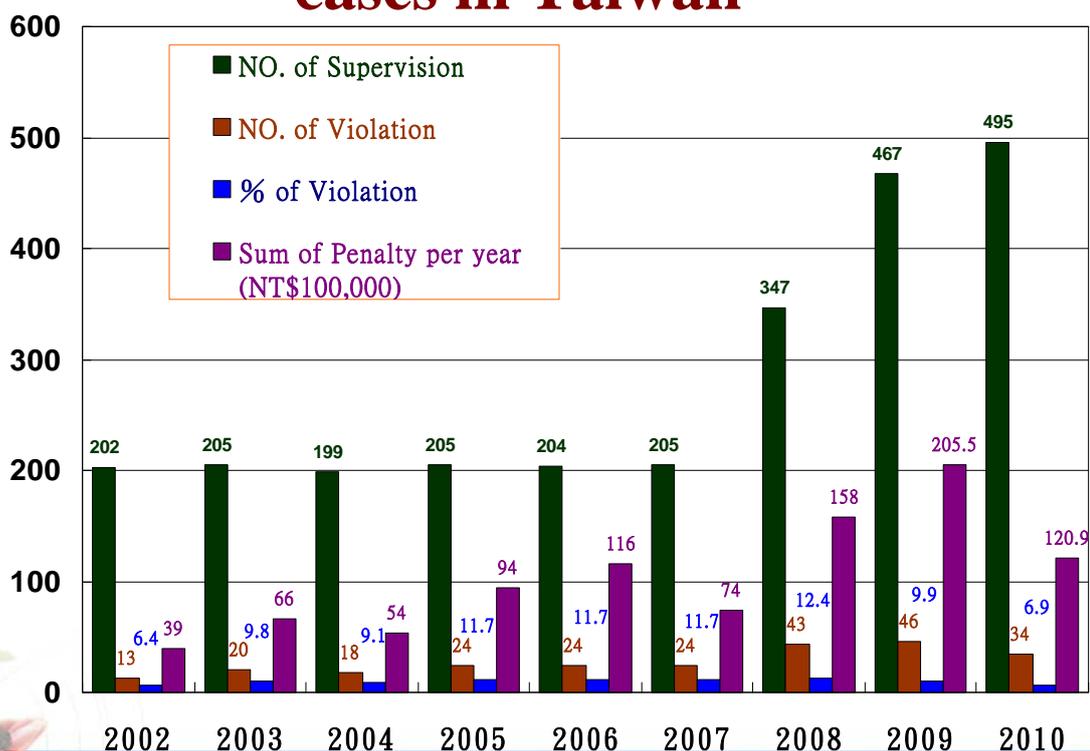
Environmental Impact Assessment Act

- Article 18

During the implementation of the development activity and when using the development after completion of the development activity, the implementation of the environmental impact statement, environmental impact assessment report and review conclusion shall be tracked by the industry competent authority and supervised by the competent authority; when necessary, the developer may be ordered to regularly submit environmental impact survey reports.



STATUS of SUPERVISION on EIA cases in Taiwan



Penalty baseline

VIOLATION BEHAVIOR	VIOLATION POINT (P)	EXTENT OF IMPACT		POINTS OF INDIVIDUAL BEHAVIOR	PENALTY OF INDIVIDUAL BEHAVIOR
		SERIOUSNESS	WEGHTED%		
14 categories of behavior	1~16	A. same behavior: 1.violate the regulation twice in one year. 2.violate the regulation third times in one year.	+50	$P = (P_A \times [1 + W_A])$	Penalty (NT\$)= $P \times 50,000$
			+100		
Example(1): developing scale or facilities allocation was not constructed as written in EIA report.	× 6	B. the developer: 1.has improved before supervision, but not yet completed. 2.has improved before supervision, and has completed.	-25		
			-50		
Example(2): pollutant emission exceed EIA permission.	× 8	C.within environmental sensitive area	+100		



01001000100100100100

001001000100100100



行政院環境保護署
Environmental Protection Administration
Executive Yuan, R.O.C. (Taiwan)

How to count the penalty ?

- Sum of Points = $\left[(P_A \times (1 + w_A)) + (P_B \times (1 + w_B)) + \dots \right]$
- Sum of Penalty (NT\$) = $P_{\text{sum}} \times 50,000 / \text{Point}$
 - P_A, P_B, \dots : Points of A,B...Violation Behavior
 - P_{sum} : Sum of Points
 - w_A, w_B, \dots : Weighted % of Violation Behavior A,B...
- $\text{NT\$}300,000 \leq \text{Penalty} \leq \text{NT\$}1,500,000$



01001000100100100100

001001000100100100



行政院環境保護署
Environmental Protection Administration
Executive Yuan, R.O.C. (Taiwan)

CASE I

VIOLATION BEHAVIOR	VIOLATION POINT (P)	EXTENT OF IMPACT		POINTS OF INDIVIDUAL BEHAVIOR	PENALTY OF INDIVIDUAL BEHAVIOR
		SERIOUSNESS	WEGHTED%		
Wave protection facility was not constructed as promised in EIA report.	6	Within coastal area	+100	12	600,000
One of environmental monitoring item was not executed for 3 years (12 seasons).	6	Within coastal area	+100	12	600,000
SUM OF PENALTY (NT\$)					1,200,000



01001000100100100100

001001000100100



行政院環境保護署
Environmental Protection Administration
Executive Yuan, R.O.C. (Taiwan)

CASE II

VIOLATION BEHAVIOR	VIOLATION POINT (P)	EXTENT OF IMPACT		POINTS OF INDIVIDUAL BEHAVIOR	PENALTY OF INDIVIDUAL BEHAVIOR
		SERIOUSNESS	WEGHTED%		
Treated water was not reusing as written in EIA report.	1	Has improved before supervision, but not yet completed.	-25	0.75	37,500
Some facilities in hospital did not match as in EIA report.	6	Has improved before supervision, but not yet completed.	-25	4.5	225,000
Hospital beds exceeded the number of beds in EIA report.	6	Has improved before supervision, but not yet completed.	-25	12	225,000
SUM OF PENALTY (NT\$)					487,500



01001000100100100100

001001000100100



行政院環境保護署
Environmental Protection Administration
Executive Yuan, R.O.C. (Taiwan)

CASE III

VIOLATION BEHAVIOR	VIOLATION POINT (P)	EXTENT OF IMPACT		POINTS OF INDIVIDUAL BEHAVIOR	PENALTY OF INDIVIDUAL BEHAVIOR
		SERIOUSNESS	WEGHTED%		
Environmental monitoring project was not executed for 1 years (4 seasons).	8	Has improved before supervision, and has completed.	-50	4	200,000
SUM OF PENALTY (NT\$)					200,000

●The penalty of this case was fined the least amount— 300,000 NT dollars, according to the regulation of EIA ACT.



~Thank You~

E-mail : twchang@epa.gov.tw

hwcheng@epa.gov.tw



附錄四：公務出國期間國外人士個人
資料彙整表

公務出國期間國外人士個人資料彙整表

會議/活動名稱	姓名	單位及職稱	國別	專長領域	會晤日期	聯絡電話	電子郵件	我方接洽者姓名職稱	交流內容	備註
國際影響評估協會 (International Association for Impact Assessment, IAIA) 第 31 屆年會	Olusola O. Popoola	Marine Institute University of Plymouth/PhD Researcher	奈及利亞	礦業及海岸政策評估	2011/5/30	+44-0-1752584883	Olusola.popoola@plymouth.ac.uk	張同婉 專員 鄭惠文 技士	交換名片、分享及交流彼此國家經驗。	
同上	Timothy D. Landry	Advancing Science, Serving Society/PhD	美國	環境政策評估	2011/5/31	+1-2025661071	Landry.tim@epa.gov	同上	同上	
同上	Mr Vong SOK	The University of Western Australia/ PhD Candidate	澳洲	生態系統評估	2011/5/31	+61-864884235	sokvong@gmail.com	同上	同上	
同上	Violaine Berger	World Business Council for Sustainable Development/Assistant Program Manager	瑞士	生態系統及水資源評估	2011/5/31	+41-0-228393121	berger@wbcsd.org	同上	同上	
同上	朱祉熹	廣東省環境科學研究院/博士	中國	政策環評	2011/6/1	+86-2083322381	zhuzhixi@gmail.com	同上	同上	

會議/活動名稱	姓名	單位及職稱	國別	專長領域	會晤日期	聯絡電話	電子郵件	我方接洽者姓名職稱	交流內容	備註
同上	金命振	National Institute of Environmental Research/Director	韓國	環境影響評估	2011/6/2	+82-325607593	kimmj4@korea.kr	同上	同上	
同上	梁浩賢	香港鐵路有限公司/高級環境工程師	香港特別行政區	交通政策及環境影響評估	2011/6/2	+852-26881066	hhyleung@mt.r.com.hk	同上	同上	
同上	林錦慰	香港環境影響評估學會/外務委員	香港特別行政區	環境影響評估	2011/6/2	+852-31058686	Josh.Lam@aecom.com	同上	同上	
同上	陳永勤	香港中文大學地理與資源管理學系/教授	香港特別行政區	政策環評	2011/6/2	+852-26096539	y davidchen@cuhk.edu.tw	同上	同上	