

出國報告（出國類別：國際會議）

參加 2015 歐洲永續發展、能源及環境研討會

(ECSEE 2015, The European Conference on Sustainability, Energy and the Environment)

服務機關：行政院環境保護署

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派赴國家：英國

出國期間：104 年 7 月 7 日至 7 月 14 日

報告日期：104 年 10 月 5 日



## 摘 要

2015 歐洲永續發展、能源及環境研討會 ( ECSEE 2015, The European Conference on Sustainability, Energy and the Environment ) 主要針對環境永續、環境管理技術、水資源、綠色能源等不同領域之議題，邀請演講者包括學者、商界人士、公部門、媒體人員等，提供廣泛的交流管道與經驗分享。本次在英國布萊頓舉行，會議主軸為「能源與永續」，會議主題包括環境永續及人類消費、環境永續及環境管理、文化永續、經濟永續、社會永續及社會正義、再生能源、水資源政策等。除瞭解國際永續發展趨勢外，亦以海報展示說明方式，分享我國致力於環評監督之環境永續成果。

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## 壹、出國目的

2015 歐洲永續發展、能源及環境研討會 (ECSEE 2015, The European Conference on Sustainability, Energy and the Environment) 由國際學術論壇 (The International Academic Forum, IAFOR) 主辦，國際學術論壇為一群關注亞洲、歐洲和北美的學者和商業人士所組成之非營利組織。主要針對環境永續、環境管理技術、水資源、綠色能源等不同領域之議題，邀請演講者包括學者、商界人士、公部門、媒體人員等，提供廣泛的交流管道與經驗分享。

本次除參與研討會外，並與其他國家經驗交流，以海報展示說明方式，分享我國致力於環評監督之環境永續成果，期能藉由參與本次會議，瞭解國際永續發展趨勢。

## 貳、行程

日期	地點	工作內容
7月7日~8日	臺北至英國倫敦 英國倫敦-布萊頓	啟程
7月9日	英國(布萊頓)	報到及開幕式
7月10日	英國(布萊頓)	研討會
7月11日	英國(布萊頓)	研討會、海報展示
7月12日	英國(布萊頓)	研討會
7月13日~14日	英國倫敦至臺北	返程

## 參、會議地點及內容

「2015 歐洲永續發展、能源及環境研討會」於西元 2015 年 7 月 9 日至 12 日於英國布萊頓 Thistle Hotel 舉行。



圖一、2015 歐洲永續發展、能源及環境研討會舉辦地點-Thistle Hotel



圖二、2015 歐洲永續發展、能源及環境研討會舉辦地點-Thistle Hotel

本次會議包括 10 場專題演講、41 場分組論文發表平行會議共 123 篇（Parallel Sessions）及 21 場海報展示（Posters）。本次會議主軸為「能源與永續」，會議論文分為 15 項主題，包括環境永續及人類消費、環境永續及環境管理、文化永續、經濟永續、社會永續及社會正義、再生能源、水資源政策等（議程及論文摘要詳如附錄一）。共有來自世界 20 餘國約 150 人與會，我國除本署派 2 人代表參加外，亦有國內大專院校研究生參與會議。



圖三、本署代表參加 2015 歐洲永續發展、能源及環境研討會

## 肆、 會議參與情形摘述

### 一、 本次會議主題與專討論文

本次會議專題研討分為環境永續及人類消費、環境永續及環境管理、文化永續、經濟永續、社會永續及社會正義、再生能源、水資源政策等。分組論文皆以平行會議方式進行，故須取捨參與聆聽的演講，本署代表針對能源政策、水資源和永續議題等論文探討，以下就各國針對相關議題探討之摘要如下：

(一) 能源議題：尋求潔淨的再生能源為國際共同趨勢，亦為永續發展的重要課題，蘇格蘭主要的再生能源為風力發電及水力發電，再生能源占「能源消費總量」的比率自西元 2000 年的 15 % 提升至西元 2013 年的 47 %，再生能源發電量自西元 2000 年的 5,000 GW/h，提升至西元 2013 年的 1 萬 7,000 GW/h，其中又以風力發電占大宗。蘇格蘭除了擁有良好的海上風能與潮汐能資源條件，最重要的是政府、相關單位及民眾對於再生能源政策的支持。該國已宣示將在西元 2025 年時達到全面使用再生能源供電的目標期程，惟現階段仍有部分問題待克服，如技術問題、投資成本、商業化運轉、運輸與熱力轉換為電力的比率、反映在消費者身上的電力成本等（詳附錄一第 7 頁）。

(二) 我國因地形條件、降雨時空分布不均等因素，致水文具不確定性，水資源極其珍貴，他國亦有類似情況。有些國家收集霧做為水源，在水源缺乏但大霧頻繁發生的地區尤其可行。樹木為最佳的自然收集來源，或藉由霧收集器（Large Fog Collector, LFC）達到更有效率的水源收集，其原理為帶霧的空氣藉由風被推送至



網篩，霧液滴沉積在篩格裡，並結合成較大的液滴，收集至儲槽中。第一個成功的案例在智利，目前非洲、南美洲、沙烏地阿拉伯、北美洲等亦不乏成功案例，霧水收集量的影響因子如：水含量、風速、網篩範圍、網篩形式等。該論文作者並藉由探討各參數因子，建立霧水收集量的評估模式，做為霧收集器的改良應用參考（詳附錄一第 30 頁）。另在雨水收集方面，在奈及利亞，地下水為重要的社區水源，但地下水井容易被不良的使用習慣、固體或液體廢棄物等污染，造成傷寒、腹瀉、霍亂等公共衛生問題，故若以雨水收集為使用水源，可更加確保使用上的安全與健康。該論文作者藉由蒐集一般家庭的用水來源、用水行為、屋頂材質等資訊，分析雨水在奈及利亞的使用情形，並對於推廣雨水收集利用提出相關建議（詳附錄一第 28 頁）。

- (三) 另在環境開發與環境管理平衡的議題下，日本學者以婆羅洲為例，婆羅洲為世界第三大島，雖然只占世界陸地的 1%，但其生物物種占全球的 6%，為世界上重要的物種多樣性棲地。婆羅洲中的泥炭沼澤森林可儲存大量的碳（約為英國西元 2005 年溫室氣體排放量的 10 倍），但從西元 1950 年至西元 2005 年，已失去了 50% 以上的森林面積，其消失速度為 85 萬公頃/年。主要造成原因有：過度砍伐、棕櫚油及橡膠開採、森林火災等，如此不考量永續發展的土地利用與森林開發行為，將大量降低物種基因庫多樣性、造成土壤侵蝕與河川污染、影響當地居民的傳統生活方式與社會經濟，若人類仍維持相同的伐木速度，將加劇全球氣候變遷，並讓不計其數的物種面臨絕跡。為兼顧生態系統與社會經

濟的永續發展，於西元 2007 年由世界自然基金會、印尼、馬來西亞與汶萊，達到共識以綠色經濟為目標，致力於環境管理，並陸續發現許多新物種。人類過度的開發行為是導致婆羅洲森林逐漸消失的最大原因，我們要有體悟：人類只是自然的一部分，而不是環境的征服者（詳附錄一第 23 頁）。



圖四、2015 歐洲永續發展、能源及環境研討會情形



圖五、2015 歐洲永續發展、能源及環境研討會情形



圖六、2015 歐洲永續發展、能源及環境研討會情形



圖七、2015 歐洲永續發展、能源及環境研討會情形

## 二、本署發表內容

本次研討會，本署代表以海報展示及說明方式，分享我國環評監督之環境永續成果，分享主題為「從環境影響評估監督談永續社會及環境正義—以臺灣環境影響評估為例」（海報詳見附錄二），當日參與情形熱烈，參與者對於我國致力於取得經濟發展與環境保護平衡之努力表示贊同與肯定。

我國環評制度於 1994 年建立，其目的係為了預防及減輕開發行為對環境造成之不良影響，以落實環境保護的目的。環保署與各縣市環保局依據環境影響評估法，監督通過審查之環境影響說明書、環境影響評估報告書等環評書件，就環評書件所載內容及審查結論執行監督查核，督促開發單位落實施工前、施工期間及營運階段之環評承諾。

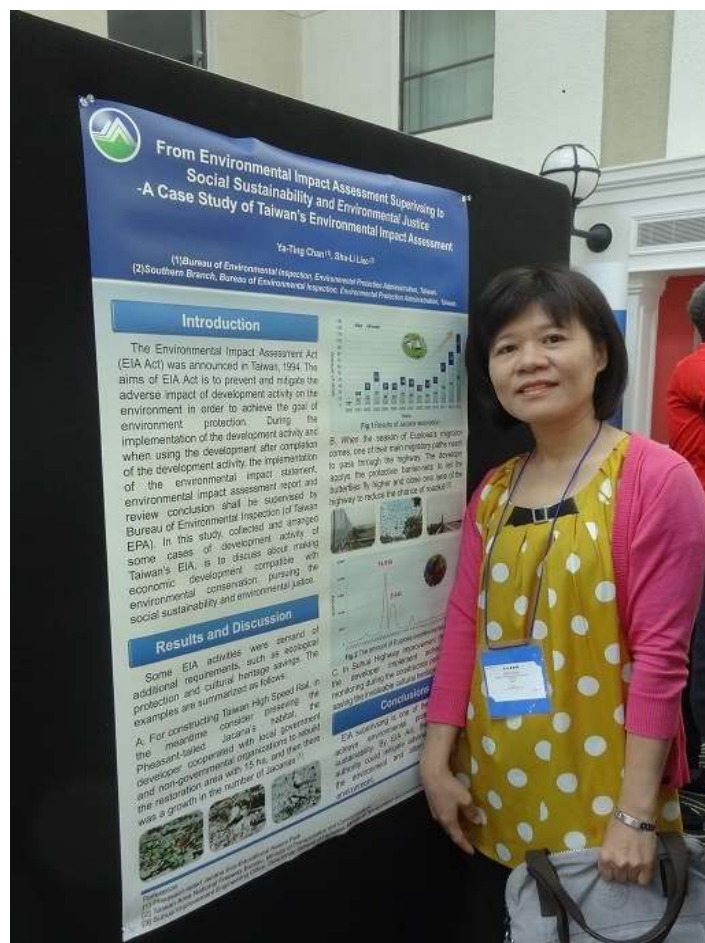
環評案件之開發內容影響層面廣泛，除了空氣、水及廢棄物的探討外，亦有珍惜生態關懷人文之感性柔軟面，其中不乏涉及文化遺址、生態維護等重大開發案，皆列為環評監督之重點。本署代表研究彙整相關環評監督成果案例如下：

- （一）高鐵開發案之水雉復育計畫：高鐵開發案依據環評審查結論，於臺南市官田區營造 15 公頃水雉棲地補償及進行復育計畫，避免施工及營運階段影響水雉之繁殖生存。復育結果數量逐年上升，該水雉棲地已成為極成功的保育物種復育案例，甚至成為台南地區優良環境教育場所。
- （二）國道開發案之紫斑蝶通過維護措施：於每年清明時節，紫斑蝶北遷經過國道 3 號 252K 附近，高速通路局依環評承諾架起防護網維護措施，協助紫斑蝶安然通過，並於該處暫時封閉外側車道，

以利紫斑蝶北遷，避免及減少紫斑蝶「路死」情形。

(三) 台 9 線蘇花公路之文化遺址監看搶救：於蘇花公路改善計畫中，公路總局依環評承諾監看谷風隧道南口墩柱附近，發現珍貴的漢本新生地文化遺址，發現千年前人們生活使用過的石器、陶器、骨角器等工具，及食物殘渣、炭渣等文化遺址。

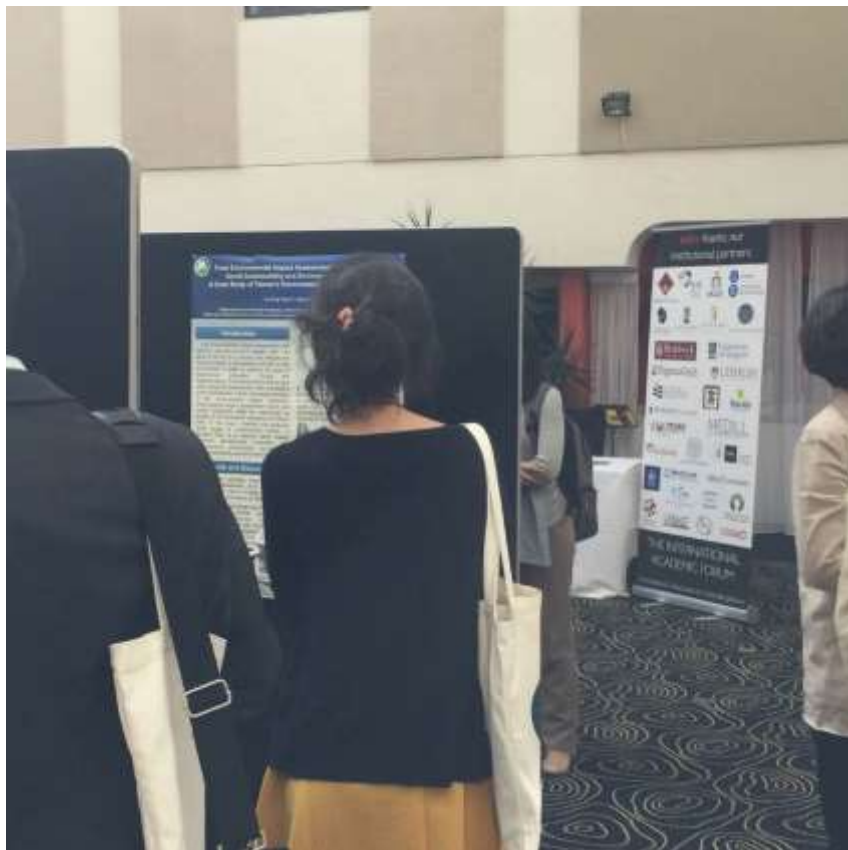
於經濟開發的同時，我們亦需思考人與土地的關係，為疼惜、關懷我們生活的土地與人文價值，追求環保、經濟及社會發展並進的永續發展，為現今人類社會的主流趨勢。環評監督制度為追求環境永續性的方法之一，經由環評法令的規範要求，將對環境的傷害性減至最少，以追求地方與國家的永續發展。



圖八、海報發表情形



圖九、海報發表情形



圖九、海報發表情形

## 伍、心得及建議

本次會議主軸圍繞在能源與永續發展議題，藉由各國研究者關心的領域、環境問題解決方案及環境管理分析，可知全世界皆面臨永續發展的急迫性。永續發展除建構在環境保護、經濟發展與社會公正三方基礎外，最重要的是，人類必須改變不合理的資源消費模式。在自然資源有限且侷促的現況下，建議需加速腳步，整合資源管理、綠色經濟發展、生態環境等之政策方針，並建立民眾的環境友好習慣，以達成永續發展的目標。

我國水資源極其珍貴，因地形條件、降雨時空分布不均等因素，致水文具不確定性；另因人口成長快速，民生、農業及工業用水量加劇，水土保持不良而影響集水區之水源涵養能力，再加上全球氣候變遷的影響，除節省寶貴的水資源外，亦需拓展並推廣其他水源。我國目前已有針對民間綠建築或學校等之雨水回收補助、獎勵方案，其為舒緩水荒之貢獻不容小覷，建議應再思考擴大回收等相關輔導計畫，並加強宣導民眾正確的用水觀念，勿因水費便宜而養成部分國人浪費水資源的惡習。

我國地狹人稠，土地資源有限，目前刻正面臨能源結構轉型的十字路口。以風力發電為例，如何妥善處理周遭居民以居住品質降低、漁業權、居民生存權等而抗爭的問題，並建立良好的溝通與信任基礎，是現階段政府機關需積極處理的課題。我國環境影響評估已包含公眾參與，民眾或環保團體可申請參加環評案件之審查會議、範疇界定與公聽會等，惟並不是所有民眾對於資訊的取得來源皆可瞭若指掌，或其因為家庭、工作等因素無法到場表達意見，導致少數通過環評審查之開發案件，在施工或營運階段屢遭民眾陳情抗爭。國家賦予環保機關之權責為相關

環保法令之執行與環保政策之推廣，故為取得經濟發展與環境保護之平衡，不能僅依賴環保機關之執法與裁罰，目的事業主管機關之追蹤輔導角色亦為重要。依據本署修正發布之「環境影響評估法施行細則」，除建立更廣泛與開放的公民參與程序，亦加強公眾與目的事業主管機關之對話，強化目的事業主管機關扮演之角色，對於環評審查與環評監督業務具有正面的助益。



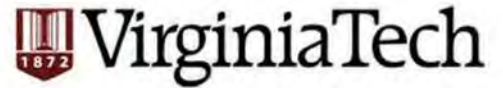
## 附錄一、大會議程





#iafor

iafor would like to thank its global institutional partners





# welcome to brighton & hove

## letter of welcome

Dear Delegates,

Welcome to the city of Brighton & Hove, a vibrant and diverse centre of Arts and Culture.

Ever since the Prince Regent first visited in 1783, Brighton & Hove has been England's most exciting seaside city, and today it's as vibrant, eccentric and cosmopolitan as ever. As Mayor it's my job to try and represent our city to others and its civic life to the people who live here... quite a job, considering the depth and breadth of our offer.

Our city has a bohemian, artistic and eccentric atmosphere that can't be found anywhere else in the UK. We combine the modern with the traditional and the outlandish with the everyday; tempting and treating visitors and residents alike with a unique cultural experience.

If you've never visited I urge you to get out and about and make the most of the rich cultural mix - Regency architecture, pleasure pier, specialist shops, pavement cafés, lively arts and of course the exotic Royal Pavilion. Everything's in walking distance, so take time to explore and enjoy what the city has to offer.

Our City-by-the-sea has a passion for creativity, a desire to look at things differently, and a friendliness that attracts visitors from all over the world. Whether it's the sea air that changes your perspective or the lively North Laine that buzzes day and night, I am sure that Brighton & Hove has got that special something that will inspire.

I wish you every success with your conference and hope you have a long and enjoyable stay.



Councillor Lynda Hyde  
Mayor of the City of Brighton & Hove

# welcome to brighton & hove



Dear Delegates,

The International Academic Forum (IAFOR) returns to the wonderful seaside city of Brighton and Hove for the third year running, an artistic, cultural and educational hub, known as the home to a diverse and inspiring population, and our conference home in the UK.

This 2015 conference series, organized in four separate events over two weeks, welcomes more than 800 participants representing more than fifty countries in an international, intercultural and interdisciplinary celebration.

Since 2009, IAFOR has promoted and facilitated research synergies and partnerships between individuals and institutions in, and between Asian countries, and between Asian countries and the outside world. This function as a network hub has seen IAFOR grow to develop partnerships with many of the world's foremost institutions of learning, and this event is strongly supported by this global partnership, and includes such institutions as Waseda University (Japan), Birkbeck University of London (UK), The National Institute of Education (Singapore), The National University of Tainan (Taiwan), Lincoln University (UK), the Hong Kong Institute of Education (HKSAR), Auburn University (USA), Virginia Tech (USA), Monash University (Australia), Lehigh University (USA), NorthWestern University (USA), Barcelona University (Spain), and most recently Moscow State University (Russia).

IAFOR has built a tradition of hosting truly international, intercultural and interdisciplinary conferences. People working in a great range of cultures, contexts, and academic areas come together to share their perspectives on common human issues. The result is invariably a unique experience of learning and sharing and making new contacts for future collaboration, and I do expect us to continue in this tradition.

This conference, the third in a series of four, will bring together scholars and practitioners covering Business & Management, Politics, Economics & Law, the Social Sciences, and Sustainability, Energy & the Environment and we hope that you will enjoy the rich and diverse program over the next few days together.

If you enjoy this event, then I would encourage you to explore other IAFOR conferences, including announced events in the UK, Japan, Dubai, and Hawaii in 2015 and early 2016, and with events in Boston, Barcelona and Singapore in the planning stages for later in 2016 and 2017.

I would like to thank the conference chairs and the keynote and featured speakers, as well as each and every delegate, from wherever you have come, and I look forward to meeting you all.

Respectfully,

Dr Joseph Haldane, Ph.D. (London), F.R.S.A., F.R.A.S.  
President, IAFOR



letter of welcome

# Conference Chairs, Keynote Speakers & Featured Speakers





Sir Kenneth Calman  
University of Glasgow, UK  
National Trust for Scotland



**Sir Kenneth Calman** is Chancellor of the University of Glasgow. He graduated in medicine in Glasgow and became Professor of Oncology in 1974. He remained in that post for 10 years. In 1984 he became Dean of Postgraduate Medicine and Professor of Postgraduate Medical Education at the University of Glasgow and Consultant Physician with an interest in palliative care at Victoria Infirmary, Glasgow. In 1989 he was appointed Chief Medical Officer at the Scottish Home and Health Department and in September 1991 he became Chief Medical Officer in the Department of Health in London. He was a member of the Executive Board of the World Health Organisation, and its Chairman from 1998-9. He was Vice Chancellor and Warden of the University of Durham from 1998 until 2007. He was a Member of the Statistics Commission from 1999 until 2007. He is President of the Institute of medical Ethics and Deputy Chair of the Board of the British Library. He chaired the Commission on Scottish Devolution 2008-9, and was President of the British Medical Association 2008. He was awarded a KCB in 1996. He became Chairman of the National Trust for Scotland in September 2010. His most recent books are "A study of storytelling, humour and learning in medicine" and "Medical Education: Past present and future" He has recently completed research for an M.Litt on Scottish Literature and Medicine and will be publishing a book on this subject in July 2014 entitled "A Doctor's Line. Poems and Prescriptions in Health and Healing."

**Keynote Presentation: Power - The impact of energy generation on health and the environment. Breaking Nature's Social Union**

This paper will discuss the nature of the relationship between the means by which power, in the sense of energy, is generated and the implications for health and the environment. The range of methods used to generate energy will be discussed briefly. In global terms, we need energy to function, but the means of its creation can cause major problems. This raises issues of risk, and central to the discussion will be climate change. The health consequences are relevant to all of us. It will conclude that human beings are responsible for the now well-recognised changes and effects of climate change. The Anthropocene model, in which the potentially catastrophic impact of climate change can be visualised, will be discussed as part of this. Power, however, has a second meaning, beyond energy, as the way in which change can be effected. This paper will discuss how political and scientific power might be used reverse the effects. We, as individuals, need to be aware of the problems we are causing and change our behaviour.

Keynote Presentation

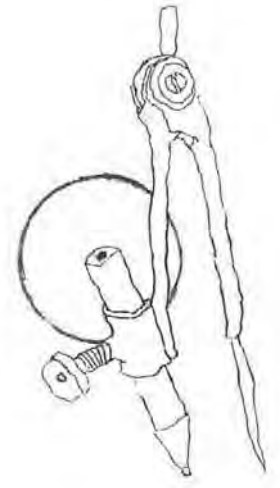
Friday, July 10, 2015

09:45 - 10:30

Renaissance Suite



**Colin Donald**  
The Sunday Herald  
BQ Baltic



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keynote presenter

**Colin Donald** is business editor of the Sunday Herald in Glasgow, Scotland and editor of BQ Baltic, a magazine based in Riga, Latvia, covering business in northeast Europe. From 1998-2003 he was an associate professor at Baiko Gakuin University in Shimonoseki, Japan and Japan correspondent for Business AM. He has written for newspapers and magazines in the UK, Japan, Singapore, Thailand, South Korea, Australia and New Zealand, and his interviewees include Nobel Prize winners Daw Aung San Suu Kyi and Professor Joseph Stiglitz. Colin lives in Stirling, Scotland with his Japanese wife and two children (14 & 18) and is a trustee of the Chrystal Trust, a charity which promotes housing for disabled veterans.

**Keynote Presentation: Green tartan - The Scottish renewables challenge**

The SNP-led Scottish Government cried foul in June when the UK Energy Minister declared an early end to the subsidy regime that had encouraged onshore wind development in Scotland, claiming that it would endanger ambitious carbon reduction targets. How substantial are Scotland's attempts to distinguish itself internationally through its commitment to green technology and what lessons does the country have to teach the international community?

The question has become particularly relevant in post-Fukushima Japan. The Japanese Consul General in Edinburgh Mr Hajime Kitaoke said recently that "the Scots are still teachers to us, and are guiding us to a new generation of clean energy."

Business editor of the Sunday Herald Colin Donald takes an objective look at Scots achievements so far, and suggests lessons from the struggle to create a sustainable new energy infrastructure.

Keynote Presentation

Friday, July 10, 2015

11:00-11:45

Renaissance Suite

Ruth Johnson Carter  
GCSU Milledgeville, USA



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featured presenter

**Ruth Johnson Carter** is a Professor in the Department of Government and Sociology at GCSU Milledgeville, Georgia. The recipient of an Excellence in Teaching Award, Fulbright Grants, Malone grants and an East West Center Grant, she is the former editor of the *Journal of Pre- and Peri-Natal Psychology*. Recipient of University System of Georgia fellowships to Morocco and South Africa, she developed the first course on Africa Culture and Politics in the university curriculum. Dr. Carter traveled much of her life in Asia, Africa and the Middle East— regions of the world that are increasingly and with strong reason in the forefront of the world's consciousness. She has known the subject of her paper, Emma Cunningham, for more than 20 years and immersed herself in Emma's world through intensive personal interaction and interviews with most of those connected with her life and the issues associated with the death penalty.

**Featured Presentation: Misapplication of Power and the Death Penalty in Georgia - There is No Power Greater Than That Over Life and Death**

The death penalty is a lottery, in which fairness loses and power wins. Under consideration are the supremacy of the parole board, political and media influence on legal decisions and the uneven application of the law on those condemned. Included are consequences of long imprisonment before the death sentence is effectuated and the execution of those suffering from mental illness. The Georgia Board of Pardons and Paroles occasionally grants clemency but, since 1976 when the death penalty was reinstated in the United States, they commuted only nine sentences. Two men have been executed in Georgia in 2015. Andrew Brannan, executed on January 13, was a 66-year-old decorated Vietnam War veteran with no prior criminal record. He suffered from PTSD. Warren Hill was found intellectually disabled yet was executed on January 27. The U.S. Supreme Court banned the execution of people with intellectual disabilities in *Atkins v. Virginia* (2002), but allowed states to set procedures. Georgia's stringent process requires proof "beyond a reasonable doubt." The fate of the only women now on death row in Georgia, Kelly Gissendaner, will be determined by either a scheduled execution on February 25 at 7 p.m. or commutation. Gissendaner was sentenced in 1997 for planning, not implementing, the death of her then husband. The gunman received a life sentence. If the death penalty is carried out, she will be the first woman executed in Georgia since 1945. A detailed exploration of the issues and outcome of this case will be included in the final paper.

Featured Presentation

Friday, July 10, 2015

17:05-17:35

Renaissance North

**ECSS Friday Spotlight Session (16:30 - 17:00)**  
**Room: Renaissance North**

*Spotlight Presentation: Modulating the Person-Environment Relationship through Local Government Intervention in England*  
**Paul Higgins, City University of Hong Kong, Hong Kong**

**About the Presenter:** Paul Higgins is an Associate Professor at City University of Hong Kong in the Department of Public Policy. He currently teaches in the areas of public sector management, human resource management and research methods. Prior to joining City University in 2008, Paul held senior lectureship positions at Middlesex University and at Birkbeck - University of London.

**Abstract:** Understanding the impact of local authority intervention on the person-environment relationship is critical for a policy objective that aims to enhance citizen well-being. Although private wealth and social connections may protect individuals and families from the harsher realities of contemporary living public interventions are designed to improve the quality of life for all. In this paper, we use four formal, publicly-available government datasets collected from 352 authorities across England to find out how local government has been able to modulate the quality of life conditions of its neighborhoods. The study reveals that behind the lower quality of life enjoyed by citizens in some inner London boroughs, metropolitan districts and northern unitary authorities there could be a failure of local government to deliver adequate educational outcomes since a strong association between both phenomena exists. No similar local government impact is identified amongst districts surrounding London or districts in rural areas. Instead, the observation that economic well-being and health also characterize the outcome deficiencies amongst clusters of commensurate socio-environmental status points to the need for national-level interventions, beyond the remit of local government. The same conclusion cannot be so easily drawn for areas of 'better than expected' quality of life whose superior outcomes seem to stem more from such profiling variables as location, population density and rural character. In the second part, the paper builds upon the initial cross-sectional data by considering spatial quality of life transformations over time.

**ECPEL Saturday Spotlight Session I (13:15 - 13:45)**  
**Room: Tennyson**

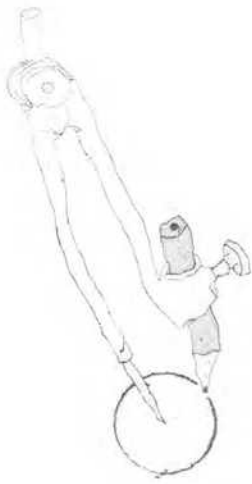
*Governance in the European Union: Evidence from Global Indicators*  
**Lino Briguglio, Univeristy of Malta, Malta**  
**Melchior Vella, Univeristy of Malta, Malta**

**About the Presenter:** Professor Lino Briguglio is the Director of the Islands and Small States Institute and a staff member in the Economics Department at the University of Malta. He is known internationally for his seminal work on the "Vulnerability Index" which was published in World Development in 1995 and led to a world-wide interest and to many quantitative studies on economic vulnerability. He has also pioneered work on the measurement of economic resilience in a paper published in Oxford Development Studies in 2009. He has acted as consultant to various international organisations, including the UNDESA, the World Bank, the International Monetary Fund and the Commonwealth Secretariat.

**Abstract:** The paper assesses the state of governance in the EU member states by comparing these states with each other utilising nine indicators relating to political, economic and social governance. The indicators relating to political governance are (i) the Worldwide Governance Indicators, (ii) the Corruption Perception Index, and (iii) the Legal Structure and Property Rights Index (Area 2) of the Economic Freedom of the World Index. The economic governance indicators are (i) the Macroeconomic Environment Index of the Global Competitiveness Indicators, (ii) areas 1, 3, 4 and 5 of the Economic Freedom of the World Index, and (iii) the Macroeconomic Stability sub-index of the Economic Resilience Index compiled by Briguglio (2014). The social governance indicators are (i) the Education sub-index of the Human Development Index (HDI), (ii) the health sub-index of the HDI and (iii) the Gini Coefficient as compiled by the World Bank. Although the economic and social indicators do not directly refer to governance, they are strongly related to economic and social policies, which are themselves associated with economic and social governance. The study also correlates these indices with GDP per capita and economic growth, so as to comment on the presumption that good political, economic and social governance is associated with these two variables. The paper summarises the main findings derived from the indicators, on the basis of which it proposes a number of implications relating to governance in the individual EU member states.



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## EBMC Saturday Spotlight Session I (13:45 - 14:15)

Room: Tennyson

### *Financial Slack and Firm Performance During an Economic Downturn*

Andreas Gruener, University of St. Gallen, Switzerland

Ingeborg Raastad, SEB AG, Germany

#### **About the Presenters:**

Professor Andreas Gruener is Finance and Accounting Professor at University of St. Gallen, Switzerland. Guest Professor at Universities in Germany, Liechtenstein and Singapore. Habilitation from University of St. Gallen, PhD from University of Bayreuth (Germany) and Master Degree in Industrial Engineering from the Technical University Darmstadt (Germany). Research fields are Corporate Finance, Financial Markets, Investment Management and Alternative Investments.

Dr. Ingeborg Raastad is currently a project manager within Business Development at Skandinaviska Enskilda Banken (SEB), a leading Nordic corporate bank. She was previously a management consultant at the Boston Consulting Group in Frankfurt, Germany for several years. Born in Norway, Dr. Raastad was educated at the University of St. Gallen, Switzerland, and gained her Ph.D. in 2014 on the topic of strategy during economic downturns.

**Abstract:** This conference contribution examines whether financial slack has an impact on performance in the particularly hostile environment of an economic downturn. Organizational theory posits that the impact of high levels of slack on performance should be positive during such a time, as excess resources buffer the core of the firm from external shocks. Using the most recent economic downturn in Germany, the paper investigates whether firms that built up excess resources up until the onset of the crisis experience superior performance during the downturn. Financial slack is measured along the following dimensions: The proportion of current assets to current liabilities, the ratio of equity to total debt, and the ratio of general and administrative expenses to sales (SG&A). These proxies are measured over a time period of five years prior to the crisis. Financial performance is then evaluated over the crisis and the initial recovery period. The results show that high pre-crisis levels of liquidity do not impact performance during a crisis. However, the findings support the view that high pre-crisis levels of debt have a negative impact on firm performance during the latest economic downturn. For slack stemming from the ratio of SG&A to sales, the association with performance was found to be positive, albeit at a declining rate. Both findings support the hypothesis that financial slack has value during an economic downturn. The originality of the approach lies in the evaluation of both linear and curvilinear performance effects of financial slack for German firms during an economic downturn.

## ECPEL Saturday Spotlight Session I (14:15 - 14:45)

Room: Tennyson

### *Challenges and Prospects of Granting Property Rights to Indigenous People and Forest Dwellers in Countries Housing Tropical Rainforests*

Patricia Blazey, Macquarie University, Australia

Hope Ashiabor, Macquarie University, Australia

#### **About the Presenters:**

Dr. Patricia Blazey is a senior lecturer in law at Macquarie University, Sydney. She is solicitor and barrister admitted to practice in Australia, and a solicitor admitted to practice in England Wales and Northern Ireland. Her research focuses on Environmental Law and Chinese Commercial Law. Her particular interest is addressing climate change through initiatives that avoid tropical rainforest deforestation.

Hope Ashiabor is an Associate Professor of Taxation Law, at Macquarie University, Sydney, Australia. He is a member of the international organising committee of the annual Global Environmental Tax Conference series, as well as a member of the Scientific Advisory Board to the Sustainable Development of Energy, Water and Environment's (SDEWES) annual conference series. Hope is also co-editor to the series Critical Issues in Environmental Taxation (Edward Elgar, UK), as well as a member of the Editorial Advisory Board to the Asian Journal of Accounting and Governance. He has written extensively on different aspects of the role of fiscal instruments in managing the challenges of environmental degradation.

**Abstract:** Tropical rainforests have historically been inhabited by indigenous and other forest dwellers who have depended on the forest for their home, livelihood and culture. Formal land tenure rights have rarely been granted to these people, with ownership remaining with the State. During colonization the colonial masters ensured that property ownership was limited, a situation that continues today. Though the paper argues that some form of land tenure rights should be granted to indigenous people and forest dwellers, the challenges are immense. In Papua New Guinea the Constitution states that all the land belongs to the various tribes however their rights are eroded by succeeding governments engaged in shady land deals involving foreign investors. In Indonesia indigenous people have never been availed of land rights though a recent decision by the Constitutional Court of Indonesia may bring about change. The paper examines the land laws, politics and economic factors that influence this lack of equality for indigenous people in these two countries. It identifies the challenges faced in gaining such rights and the prospects of a successful outcome.

## ECSEE Saturday Spotlight Session II (16:45 - 17:15)

Room: Tennyson

### *The Role of Regional Strategies in Realising Energy Neutrality in Regions: Experiences from the EU-LEE Project SUSREG*

Bauke de Vries, Saxion University of Applied Sciences, The Netherlands  
Kjell Erik Bugge, Saxion University of Applied Sciences, The Netherlands  
Theo de Bruijn, Saxion University of Applied Sciences, The Netherlands

**About the Presenter:** Bauke de Vries MSc studied Biology at the University of Groningen, the Netherlands. He then began working at Saxion University of Applied Sciences since 1991, in different positions and projects as a lecturer and researcher. Later he was responsible for lecturing in BSc and MSc programmes in Environmental Sciences, Urban and Regional Planning and Nature Conservation and is still currently involved in this area. Bauke is currently involved in professional training programmes in the Netherlands and abroad, in topics like Environmental Science, Natural Resource Management, Project Management and Sustainable Urban Development. He also has an involvement in several EU Interreg projects for research work, project management and professional training.

**Abstract:** The EU has high ambitions with respect to climate change mitigation and energy independence, but realisation of these ambitions is still in its infancy. SUSREG is a project within the IEE programme (Intelligent Energy Europe) that develops knowledge and tools in this respect. Knowledge partners and local and regional authorities in six countries develop and implement planning tools contributing to energy saving and renewable energy introduction.

This paper describes the activities and the preliminary results in four regions: Copenhagen (Denmark); Central Holland and the City Region of Arnhem and Nijmegen (the Netherlands); Treviso (Italy). These regions developed strategies towards energy neutrality, in a cooperation between local and regional authorities, businesses, knowledge institutes and NGOs / citizen representatives. These strategies should facilitate practical energy initiatives, like PV panels on dwellings or energy saving initiatives by housing corporations. The question discussed here is, how and to which extent bottom up initiatives really benefit from regional strategies. Do these strategies support bottom up initiatives, or are these initiatives enabled by other factors outside the scope of the region? What are possible success factors in regional strategies towards energy neutrality? Both the process leading to the regional strategy, and the contents of the strategy itself, will be considered to identify possible success factors or bottle necks.

The paper describes the most important results of the regions in realising climate neutrality and energy independence, and tries to explain the results. Finally, recommendations for other regions with comparable ambitions are formulated.

## ECSEE Saturday Spotlight Session II (17:15 - 17:45)

Room: Tennyson

### *China's Impact on the World Oil Price*

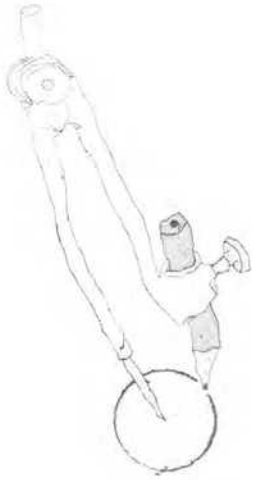
Raymond Li, Hong Kong Polytechnic University, Hong Kong

**About the Presenter:** Raymond Li received his doctorate from Macquarie University in Australia and he currently teaches at the School of Accounting and Finance at the Hong Kong Polytechnic University. Dr. Li's main research interests include applied econometrics and energy economics, with a specific focus on the integration of energy markets, energy demand and the role of energy in economic growth. His research outputs appear in a range of journals like the Energy Journal, Energy Policy and Applied Energy, amongst some others. He is an editorial board member of two international academic journals and he has reviewed research articles for various academic journals.

**Abstract:** The primary energy mix of China is largely dependent on coal, but oil is thus far the only form of energy that the country has to import massively in order to satisfy the enormous domestic demand. Despite a relatively minor role that oil plays in the fuel mix, absolute oil consumption in China reached 507.4 million tonnes in 2013, making the country the second largest oil consumer in the world, just after the United States. In this study, I employ a cointegration and VECM analysis with monthly real Brent oil price, Chinese net crude oil import and world crude oil production from Jan 2002 to May 2014 to re-examine the "Chinese impact" on the world oil prices. The Johansen test is applied to test for multivariate cointegration amongst the series and according to the Trace statistics, there is some weak evidence of cointegration amongst the variables. The weak exogeneity test finds that both world production and Chinese net import are weakly exogenous in the cointegration system. This means only the Brent price will adjust to disequilibrium in the long-run. Generalised impulse-response functions generated from the VECM show some statistically-significant positive response of the Brent price to a shock in Chinese net import approximately nine months after the shock. The forecast error variance decomposition analysis further suggests that shocks in Chinese net import can explain up to 13% of the forecast error variance in the Brent price in 12 months after the shock.



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**ECSEE Saturday Spotlight Session II (17:45 - 18:15)**  
**Room: Tennyson**

*Energy Security: Relative Power in Australia and Northeast Asia Energy Trading Relations*  
**Tom Houghton, Curtin University, Australia**  
**Fran Ackermann, Curtin University, Australia**

**About the Presenter:** Dr Tom Houghton is Director of the MBA (Oil & Gas) at Curtin Graduate School of Business and was previously a Research Fellow at the University of Strathclyde. His principal field of research is sustainable energy economics and he has a keen interest in energy for development, having established training program in Renewable Energy for Developing Countries with UNITAR. Tom is a Visiting Professor at Nagoya University of Commerce and Business where he provides courses in sustainable energy to MBA students. Before joining Strathclyde he spent more than 5 years in power industry and a further 8 in the banking sector, latterly as director at the Japanese bank, Nomura. With colleagues in Asia and the US, he established a consulting company in the renewable energy sector in 2011. Tom holds an MEng from Imperial College, an MBA from London Business School and a PhD from the University of Strathclyde.

**Abstract:** Much has been written about the facts and perceptions surrounding energy security in Northeast Asia, especially following the Fukushima disaster which saw the closure of Japan's nuclear generation fleet. Significantly less attention has been devoted to the major suppliers of energy to this region, reflecting outdated models of energy security which focus on resource availability. Wider definitions of energy security which recognise the importance of other attributes such as affordability and environmental acceptability have led a number of observers to acknowledge the importance of energy security issues to energy exporters and importers alike. As a major supplier of fossil fuels to Northeast Asian countries, Australia has a particular interest in understanding what impact changes in attitudes towards climate change, for example, in these countries would have on Australia's own energy security position. Does a drive to increase energy security in Japan, through a switch to lower carbon sources for example, imply a weakening or an improvement in energy security in Australia? The mixed methods research described in this paper was carried out to re-evaluate Australia's energy security through the application of established frameworks, modified to emphasise a number of key parameters relevant to energy exporters. Secondary data were combined with primary data obtained through a mixture of workshops and structured interviews with experts in the field, to analyse the impact of a range of endogenous and exogenous factors affecting the Asia-Pacific region. The impact of these findings on Australia's future economic development are discussed and implications for policy decisions highlighted.

# INTERNATIONAL INTERCULTURAL INTERDISCIPLINARY

## iafor

“To Open Minds, To Educate Intelligence, To Inform Decisions”

The International Academic Forum provides new perspectives to the thought-leaders and decision-makers of today and tomorrow by offering constructive environments for dialogue and interchange at the intersections of nation, culture, and discipline. Headquartered in Nagoya, Japan, and registered as a Non-Profit Organization (一般社団法人), IAFOR is an independent think tank committed to the deeper understanding of contemporary geo-political transformation, particularly in the Asia Pacific Region.

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**IAFOR**  
**The International Academic Forum**  
**Academic Vision and Mission**

“To Open Minds, To Educate Intelligence, To Inform Decisions”

The vision of IAFOR grew out of the perceived need to fill a vacuum in the communication and exchange activities of the academic world. Its mission arose out of examining that space and investigating why it existed. The vacuum existed because of the lack of opportunity for serious and thoughtful exchange between academics, members of the global business community, and practitioners in the fields of human endeavor that linked these groups together. In the field of education, for example, we have academic theorists, educational managers (political decision-makers and organizational directors) and classroom teachers with their support staff in IT, library work, exchange programs, and specialist fields. But how often do they have the opportunity to interact?

Moving beyond one particular field, larger questions arise. What function should universities prioritize in the 21st century? What do businesses see as their contribution to social and global well being? How can people on the ground, trying to implement improvements that will transform human life, best be supported? And perhaps above all, what are the agendas that will drive mechanisms to enable these groups to interact effectively.

One piece of distilled thought that came from early exchanges at one of our conferences was the recognition that some of the rhetoric of concern about the problems of developing nations was perhaps over-focused on the term “poverty” because it can be defined only in a relative way. “Hunger” was put forward as being more immediate and itself a contributory factor to poverty, rather than the other way round. One key to the hunger issue could be the provision of safe drinking water, or water for irrigation in some contexts, while flood management might be necessary elsewhere. These, in and by themselves become valuable only insofar as they help to relieve hunger in specific contexts.

IAFOR is affording opportunities that do not exist elsewhere. The base is Kansai, Japan’s great commercial and manufacturing hub, one symbol of the emerging Pacific economy that is already eclipsing the long dominant Atlantic zone. Our conferences present those taking part with three unique dimensions of experience. First of all, it encourages interdisciplinary activity to be expanded. Depending on the field, this can face varying degrees of difficulty, ranging from discouragement to downright prohibition. Those overly dependent on fixed academic structures often see lateral thinking as a threat. None of these negatives apply in IAFOR. Its purpose is to generate new approaches that cross any disciplinary lines. The principle employed is to let the imagination permit intuitive responses to questions. There are no panels of critics. There are simply people who want to listen and reflect. The model of academic work as potholing is replaced by the metaphor of mountaineering. While respecting the need for solid and well-founded academic work, we feel the need to go beyond it from time to time to discover fresh approaches to old questions.

Secondly, it facilitates the heightening of intercultural awareness. Again, we encourage innovation through cross-cultural perception. Cultural roots influence people in their attitudes more than most would realize or admit. The need to see and internalize insights gained from other viewpoints is met by a process of steady illumination.

Thirdly, it promotes the broadening of international exchange. We may live in a globalized world, but in reality parochialism still holds sway. The collapse of the U.S.S.R and the break-up of Yugoslavia led to the re-establishment of numerous former countries. While this may be desirable for the peoples concerned, it merely adds to the world’s cultural confusion. Exchange leads to explanation and that helps the growth of intercultural awareness.

IAFOR makes all of these developments possible in one gathering. Our conferences are not a substitute for specialist conferences. We intend our events to be an alternative that functions as a balance or even a corrective to the extreme tendencies that can arise from more narrowly defined research parameters. In short, IAFOR is promoting and facilitating a new multifaceted approach to one of the core issues of our time, namely globalization and its many forms of growth and expansion. Awareness of how it cuts across the worlds of business, and academia, along with its impact on societies and institutions is one of the driving forces that has given the organization its momentum, and is making it a pioneer in this global age.

**Rev. Professor Stuart DB Picken**

Order of the Sacred Treasure (瑞宝中綬章), M.A. (Hons), BD., Ph.D., F.R.A.S.

Chairman, Japan Society of Scotland

Chairman, IAFOR International Advisory Board

**Dr Joseph Haldane**

B.A. (Hons), Ph.D, F.R.S.A., F.R.A.S.

President, IAFOR



## Chairman of the International Advisory Board

The Reverend Professor Stuart D. B. Picken

Order of the Sacred Treasure,

M.A. (Hons), B.D., Ph.D. (Glasgow), F.R.A.S.



**Stuart D. B. Picken** is the Chairman of the International Advisory Board, and in this role is Chairman of the Organization. As Chairman of IAFOR, Professor Picken helps guide the academic and political strategy of the organization, and assists in the forging of global institutional partnerships. He is also responsible for the development of the IAFOR Research Institutes.

The author of a dozen books and over 130 articles and papers, Professor Picken is considered one of the foremost scholars on Japan, China, and Globalization in East Asia. As an academic, Professor Picken has devoted more than 30 years to scholarship in Japan, notably as a Professor of Philosophy at the International Christian University in Tokyo, where he specialized in ethics and Japanese thought, and as International Adviser to the High Priest of Tsubaki Grand Shrine (Mie prefecture). He has also served as a consultant to various businesses, including Jun Ashida Ltd., Mitsui Mining & Smelting Corp., Kobe Steel, and Japan Air Lines.

In November 2008, the Government of Japan awarded Professor Picken the Order of the Sacred Treasure for his pioneering research, and outstanding contribution to the promotion of friendship and mutual understanding between Japan and the UK. The honour is normally reserved for Japanese citizens and is a mark of the utmost respect in which Professor Picken is held by the Japanese Government. More recently, in 2012 he was invited to London to attend a reception at the Japanese Embassy, hosted by Emperor Akihito and Empress Michiko as an expression of their gratitude towards Britons who had helped support Japan after the 2011 Tohoku earthquake and tsunami. Professor Picken helped organize fundraising efforts through both the Japan Society of Scotland, of which he is the chair, in the UK, and IAFOR in Japan.

Although now resident in Scotland, Professor Picken maintains his interests in Japan, as Chair of the Japan Society of Scotland, and through the IAFOR IAB. He is also the Chairman of the Academic Board of New College, Birmingham. He lives near Glasgow with his wife and two children.

## President

Dr Joseph Haldane

B.A., Ph.D. (London), F.R.S.A., F.R.A.S.



**Joseph Haldane** is the President of the International Academic Forum. He was Academic Director from IAFOR's inception in 2009 until January 2011, and Executive Director from 2011 until late 2014, when he assumed his current role. He is responsible for devising strategy, setting policies, forging institutional partnerships, implementing projects, and overseeing the organization's business and academic operations, including research, publications and events.

Dr Haldane's academic interests include politics and international affairs, literature and history, and he holds a PhD from the University of London in 19th century French Studies. He began his academic career in France, and from 2002-2005 held full-time faculty positions at the University of Paris XII (Paris-Est Créteil) and Sciences Po Paris, as well as visiting positions at both the French Press Institute in the University of Paris II (Université Panthéon-Assas), and the School of Journalism at Sciences Po Paris. Prior to founding IAFOR in 2009, Dr Haldane was an Associate Professor at Nagoya University of Commerce and Business in Japan, where he taught a range of language and culture courses at undergraduate level, and the MBA Ethics course in the graduate school.

Dr Haldane's current research concentrates on post-war Japanese and Chinese history, as well as Sino-Japanese and US-Japan relations in the same period. In 2012 he was elected a Fellow of the Royal Asiatic Society, and in 2015 a Fellow of the Royal Society of Arts.

# people - The Executive Council of the International Advisory Board

IAB Chair: Professor Stuart D.B. Picken

The IAB Executive Council is composed of distinguished academics, business executives, former and current government officials, and community leaders of international standing. Its role is to provide counsel and direction in the business and affairs of IAFOR, suggest and approve the areas of scholarly investigation, and safeguard the independence of the Forum's work. International Directors of Program and Research Institute Directors are ex-officio members of the Executive Council of the International Advisory Board. Membership of the Executive Council of the International Advisory Board is by invitation only.

**Mr Mitsumasa Aoyama**

Director; The Yufuku Gallery, Tokyo, Japan

**Professor David N Aspin**

Professor Emeritus and Former Dean of the Faculty of Education, Monash University, Australia  
Visiting Fellow, St Edmund's College, Cambridge University, UK

**Professor Don Brash**

Former Governor of the Reserve Bank, New Zealand  
Former Leader of the New National Party, New Zealand  
Adjunct Professor; AUT, New Zealand & La Trobe University, Australia

**Lord Charles Bruce**

Patron, Japan Society of Scotland  
Patron, Scottish Centre of Tagore Studies at Edinburgh Napier University  
Chairman, Kolkata Scottish Heritage Trust

**Professor Judith Chapman**

Professor of Education, Australian Catholic University, Australia  
Visiting Fellow, St Edmund's College, Cambridge University, UK  
Member of the Order of Australia

**Professor Tien-Hui Chiang**

Professor and Chair, Department of Education  
National University of Tainan, Taiwan/Chinese Taipei

**Professor Chung-Ying Cheng**

Professor of Philosophy, University of Hawai'i at Manoa, USA  
Editor-in-Chief, The Journal of Chinese Philosophy

**Professor Steve Cornwell**

Professor of English and Interdisciplinary Studies, Osaka Jogakuin University, Osaka, Japan  
IAFOR International Director of Programme: Language Learning

**Professor Michael A. Cusumano**

SMR Distinguished Professor of Management and Engineering Systems, MIT Sloan School of Management, Massachusetts Institute of Technology, USA

**Professor Dexter Da Silva**

Professor of Educational Psychology, Keisen University, Tokyo, Japan

**Professor Georges Depeyrot**

Professor and Director of Research & Member of the Board of Trustees  
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The International Advisory Board is composed of distinguished academics, business executives, former and current government officials, and community leaders. Its role is to consult and provide counsel on the business and affairs of IAFOR, and suggest areas of scholarly investigation. Membership of the International Advisory Board is by invitation only. For a full list please see the IAFOR website.

## The Japan Liaison Committee (JLC)

The Japan Liaison Committee is a consultative committee that provides support in the form of advice and guidance in specific aspects of the planning and projects of the Forum held in Japan. The Chairman of the International Advisory Board is also chair of the JLC. Members of the JLC are ex-officio members of the International Advisory Board.

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Prof Kuniko Miyanaga, Director; the Human Potential Institute, Tokyo, Japan and Fellow, Reischauer Institute, Harvard University, USA

Prof Michiko Nakano, Professor & Director of the Distance Learning Center; Waseda University, Tokyo, Japan

Prof Yozo Yokota, Director of the Center for Human Rights Affairs, Japan & Former UN Special Rapporteur on Myanmar

Dr Joseph Haldane, President, IAFOR

# people - IAFOR Journal Editors

Editors of IAFOR Journals are ex-officio Members of the International Advisory Board

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IAFOR Journal of Politics, Economics & Law  
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**Dr. Deborah G. Wooldridge**, Professor and School Director, Bowling Green State University, USA

# people - IAFOR Key Staff



## Kiyoshi Mana - Director of Operations

Kiyoshi Mana is the Director of Operations, and is responsible for overseeing the operations of the organisation, including IAFOR's conferences in Asia, Europe, North America and the Middle East. An American of Japanese descent, Kiyoshi has long been fascinated by the country of his ancestors, studying both Japanese language and culture at San Francisco State.



## Alexander Pratt - Deputy Director of Operations

A civil engineering graduate from the University of Nottingham, Alex first came to Japan in 1997. Previous to joining IAFOR, in 2013, Alex held positions in education management, information services, and international relations. At IAFOR Alex helps oversee the general administration and operation of the organization and works alongside the Director of Operations to expand IAFOR's events in Japan and internationally.



## Michael Kedzlie - Research and Policy Manager

Michael Liam Kedzlie is a New Zealander who currently works as the Research and Policy Manager. He is responsible for formulating legal policy as well as liaising with the organisation's university partners and the International Directors of Program. He is also editor of Eye Magazine. He has a Master's degree in Education from Massey University as well as a Law degree from the University of Waikato Law School. He is an enrolled Barrister and Solicitor of the High Court of New Zealand.



## Bryce Platt - Technology Manager

After growing up in the Silicon Valley in California, Bryce graduated from Gustavus Adolphus College (Saint Peter, Minnesota) with a degree in sociology, and in 2013 earned a Master's degree in Global Communication from Akita International University in Japan. As well as coordinating IAFOR's technology strategy, he is also responsible for managing systems operations, and exploring technological solutions for the organization.



## Thaddeus Pope - Media and Design Manager

Born and raised in Brighton, UK, Thaddeus is an experienced commercial and editorial photographer with a BA in Photography from the London College of Communication (University of the Arts London). Thaddeus's duties at IAFOR include overseeing the design and media output of the organisation, as well as producing photo-essays, short documentaries and other visual content for IAFOR and its publications, including Eye Magazine. He is also the Creative Director of the IAFOR Documentary Photography Award.



## Shawn Mahler - Production Manager

Los Angeles native Shawn Mahler has a wealth of experience working on film, video, and theater productions in the United States and Japan. He holds a Bachelor of Arts in Film Theory and Production from the University of California, Irvine. Shawn has spent over ten years in Japan where he has worked with numerous industry professionals to develop television shows, movies, and theatrical productions.



## Takumi Saito - Coordinator: Finance and Administration

Born and raised in Yamagata, Japan, Takumi studied English literature at Waseda University. A language lover, he has also studied German, Spanish, French and Polish and can also speak Italian. Takumi recently joined IAFOR to handle its finance and administration.



## John Ananthan - Technology Coordinator

Born and raised in northern Denmark in a multicultural family, John Ananthan studied Computer Science at University College Nordjylland. At an early age he started his own IT company, worked for several 3rd party companies and now has over 11 years of experience in website management and software development. Due to his Scandinavian background, John speaks Danish and can understand Norwegian and Swedish.



## Stephen Rudden - Systems & Administrative Coordinator

Originally from Leicester, England, Stephen Rudden is an experienced network and systems engineer with a BSc in Computing from the University of Westminster. Before joining IAFOR in April 2015, Stephen was a network engineer for a global consumer electronics company.

# Friday



### Friday Morning Events

08:00 - 09:00  
Conference Registration

**09:30 - 09:45**  
Welcome Address  
Conference Chair Address

**09:45 - 10:30**  
Keynote Presentation  
Sir Kenneth Calman

10:30 - 11:00  
Coffee Break

**11:00 - 11:45**  
Keynote Presentation  
Colin Donald

**11:45 - 12:00**  
Conference Photograph

12:00 - 13:00  
Lunch Break



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## Friday Session I: 13:00 - 14:30

**Friday Session I: 13:00 - 14:30****Room: Tennyson****ECPEL - Politics: Interdisciplinary  
Session Chair: Adam Clark**

8277 13:00 - 13:30

*Ten Years of Malta's EU Membership - The Impact on Maltese Environmental NGOs*  
Michael Briguglio, University of Malta, Malta

15895 13:30 - 14:00

*Cosmopolitanism as Biopower: Creating and Targeting Cultural Others*  
Abhishek Choudhary, Jawaharlal Nehru University, India

15587 14:00 - 14:30

*The Role of the Development Theorist in the Process of Development*  
Adam Clark, Newcastle University, UK**Friday Session I: 13:00 - 14:30****Room: Shelley****ECSEE - Energy: Interdisciplinary  
Session Chair: Marc Stanton**

15970 13:00 - 13:30

*A Techno-Economic Analysis of Water Use and Recycling for Shale Production: Lessons Learned in Texas*  
Margaret Cook, The University of Texas, USA  
Yael Glazer, The University of Texas, USA  
Michael Webber, The University of Texas, USA

10384 13:30 - 14:00

*Energy Intensity and Environmental Performance in the Gulf Cooperation Council Region: A Heterogeneous Panel Approach*  
Amany A. El Anshasy, United Arab Emirates University, UAE

16191 14:00 - 14:30

*Small Ones Are More Juicy: It is not what you have, it is what you do with it that is important*  
Marc Stanton, Clean Power Solutions Ltd, UK**Friday Session I: 13:00 - 14:30****Room: Keats****ECSS - Economics and Management  
Session Chair: Ann Ogbo**

14309 13:00 - 13:30

*Virtual Water Trade as a Tool of Managing Water Resources in Egypt*  
ElSayda Ibrahim Moustafa, Alexandria University, Egypt  
Maha Asfour, Alexandria University, Egypt

16055 13:30 - 14:00

*Outsourcing in Small Companies Lessons Learnt From Failure*  
Kaja Prystupa, Kozminski University, Poland  
Maciej Rządca, Kozminski University, Poland

11804 14:00 - 14:30

*Impact of Workplace Conditions on Job Satisfaction: Evidence from Nigerian Banking Sector*  
Ann Ogbo, University of Nigeria, Nigeria

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## Friday Session I: 13:00 - 14:30



**Friday Session I: 13:00 - 14:00**  
**ECSEE - Social Sustainability and Social Justice**  
**Session Chair: Nadine Andrews**

**Room: Coleridge**

10134 13:00 - 13:30  
*Community Engagement, Environmental Justice and Modern Governance: Case Studies from Australian Rural Communities*  
 Tanya Marjoram Howard, University of New England, Australia

15498 13:30 - 14:00  
*Apart or a Part: Psychosocial Factors Influencing Enactment of Pro-Environmental Values in Organisational Decision-Making*  
 Nadine Andrews, Lancaster University, UK  
 Stuart Walker, Lancaster University, UK  
 Kathryn Fahy, Lancaster University, UK

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**Friday Session I: 13:00 - 14:30**  
**ECSS - Sociology**  
**Session Chair: Sarah Rutherford**

**Room: Renaissance North**

17856 13:00 - 13:30  
*Power in Movement(s): The Case of the Global Justice Movement >>World Social Forum<<*  
 Christian Schröder, University of Luxemburg, Germany

17934 13:30 - 14:00  
*Empowerment Strategies Among LGBT Activists*  
 Gozde Dagdelen, Recep Tayyip Erdogan University, Turkey

15718 14:00 - 14:30  
*Power, Patronage and Racism within a Public Sector Equal Opportunity Employer: A Study of Access to NHS Training Opportunities*  
 Sarah Rutherford, Manchester Metropolitan University, UK

**Friday Session I: 13:00 - 14:30**  
**EBMC - Business Administration and Business Economics**  
**Session Chair: Sylvia Diana Purba**

**Room: Renaissance South**

16645 13:00 - 13:30  
*High Performance Work Practices and Employee Outcomes: The Role of Psychological Contract Fulfillment, Emotions, Job Satisfaction and Organizational Commitment*  
 Jony Downes-Marrast, The University of the West Indies, Barbados

18092 13:30 - 14:00  
*Performance Consequences of CEO Succession: The Impacts of CEO Successor Origins and Succession Context*  
 Aylin Ataay, Galatasaray University, Turkey

15493 14:00 - 14:30  
*The Study of the Success Career-Life Concordance (SCLC)*  
 Sylvia Diana Purba, Atma Jaya Catholic University of Indonesia, Indonesia

Coffee Break  
 14:30 - 14:45

## Friday Session II: 14:45 - 16:15

**Friday Session II: 14:45 - 16:15** **Room: Tennyson**  
**Interdisciplinary - Law: Employment, Social Justice & Public Policy**  
**Session Chair: Lorrie M. Adams**

15932 14:45 - 15:15

*Substantive Equality and Socio-Economic Disadvantage: Equity and Access to Higher Education in South Africa*  
 Karunanidhi Reddy, Durban University of Technology, South Africa

9187 15:15 - 15:45

*Workplace Minimum Working Conditions: Protection for Some or Protection for All? Reconsidering the Limits of Employment Standards Legislation*  
 Lorrie M. Adams, MacEwan University, Canada

17793 15:45 - 16:15

*Discretion in Public Policy in Indonesia*  
 Sintaningrum, University of Padjadjaran, Indonesia  
 Tomi Setiawan, University of Padjadjaran, Indonesia  
 Riki Satia Muharam, University of Padjadjaran, Indonesia

**Friday Session II: 14:45 - 16:15** **Room: Shelley**  
**ECSEE - Energy: Renewable Energy and Environmental Solutions**  
**Session Chair: Abebayehu Assefa**

15386 14:45 - 15:15

*UNbound boundary: PerFormative Forms of Optimized Building Facades*  
 Pegah Zamani, Kennesaw State University, USA

15974 15:15 - 15:45

*A Framework for the Governance of Socio-Technical Transitions in Energy Infrastructures*  
 Amin Dehdarian, Ecole Polytechnique Federale Lausanne, Switzerland  
 Matthias Finger, Ecole Polytechnique Federale Lausanne, Switzerland

17965 15:45 - 16:15

*Seasonal Climate Scatter as a Climate Change Indicator*  
 Abebayehu Assefa, Addis Ababa University, Ethiopia  
 Asfaw Beyene, San Diego State University, USA

**Friday Session II: 14:45 - 16:15** **Room: Keats**  
**ECSS - Education and Social Welfare**  
**Session Chair: Uche Igbokwe**

13319 14:45 - 15:15

*Construction of Power in Self-Regulated Learning Context in Teacher Education*  
 Doreen Cerny, University of Teacher Education Salzburg, Austria

15337 15:15 - 15:45

*Development of Holistic Creative Learning Skills for Elderly People in Rural Area of Thailand: Career Dimension*  
 Wannawee Boonkoom, Silpakorn University, Thailand  
 Wisud Po-Ngern, Silpakorn University, Thailand  
 Manassanan Namsomboon, Silpakorn University, Thailand

13614 15:45 - 16:15

*Baby Factories in Nigeria: Implications for Education and Women Empowerment*  
 Uche Igbokwe, University of Nigeria, Nigeria  
 Veronica Ifeyinwa Okeke, University of Nigeria, Nigeria  
 Josephine Nkiru-edna Alumanah, University of Nigeria, Nigeria



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## Friday Session II: 14:45 - 16:15



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**Friday Session II: 14:45 - 16:15****Room: Coleridge****ECSEE - Environmental Sustainability & Environmental Management: Land Use & Misuse****Session Chair: Siddhartho Shekhar Paul**

10556 14:45 - 15:15

*"Green" Capitalism and Environmental Stewardship: The Heart of Borneo Paradox*  
Choy Yee Keong, Kyoto University, Japan

15953 15:15 - 15:45

*An Unsustainable Growth Pattern of Urban Extension for Environmental Degradation*  
Levent Ozaydin, Mimar Sinan Fine Arts University, Turkey

12275 15:45 - 16:15

*Energy Development and Land Use/Land Cover (LULC) Change: A Case Study in Kiskatinaw River Watershed, Canada*  
Siddhartho Shekhar Paul, University of Northern British Columbia, Canada  
Jianbing Li, University of Northern British Columbia, Canada

**Friday Session II: 14:45 - 16:15****Room: Renaissance North****ECSS - Interdisciplinary Topics****Session Chair: Mahaweera Sahaschai**

15660 14:45 - 15:15

*The Impact of Physical Appearance and Self-Esteem on Turkish Adolescents' Subjective Well-Being*  
Firdevs Savi Cakar, Mehmet Akif Ersoy University, Turkey  
Sevil Savi-Karayol, Mehmet Akif Ersoy University, Turkey

17828 15:15 - 15:45

*Legal Research Per Se as a Cultural Study: LGBT Rights Versus Asian Values in Taiwan and Others*  
Po-Han Lee, University of Sussex, UK

15762 15:45 - 16:15

*Proper Exercise of Power is the Real Behind the Throne: The Case of Thai Society*  
Mahaweera Sahaschai, Sripatum University, Thailand  
Rattanasanwong Karunan, Sripatum University, Thailand

**Friday Session II: 14:45 - 16:15****Room: Renaissance South****EBMC - Business Administration and Business Economics****Session Chair: Charles R. Salter**

12906 14:45 - 15:15

*Online Reviews in an E-Commerce Environment: Impact on Brand Trust and Consumer Equity*  
Jo Rhodes, Macquarie University, Australia  
Glenn Asano, Ryerson University, Canada  
Peter Lok, University of Sydney, Australia

17844 15:15 - 15:45

*Marketing Communications of University Business & Economics Departments in Tokyo, Japan*  
Sarah Louisa Birchley, Toyo Gakuen University, Japan

12807 15:45 - 16:15

*A Study of Respondent's Virtual Social Interaction, Leadership Style, and Moral Development*  
Charles R. Salter, Schreiner University, USA  
Mary H. Harris, Cabrini University, USA  
Mark Woodhull, Schreiner University, USA  
Jay McCormack, Schreiner University, USA  
Dan Coleman, Schreiner University, USA

Coffee Break  
16:15 - 16:30

Friday ECSS Featured Session: 16:30 - 17:35

**ECSS Spotlight Presentation**  
16:30 - 17:00

**Room: Renaissance North**

16177

*Modulating the Person-Environment Relationship through Local Government Intervention in England*

Paul Higgins, City University of Hong Kong, Hong Kong

Josep Maria Campanera, University of Barcelona, Spain



**ECSS Featured Presentation**  
17:05 - 17:35

**Room: Renaissance North**

13684

*Misapplication of Power and the Death Penalty in Georgia: There is No Power Greater Than That Over Life and Death*

Ruth Johnson Carter, Georgia College & State University, USA

19:00 - 21:00

**A Night Out in Brighton: Conference Dinner (Ticketed and Optional)**

Come and join your fellow delegates on an evening out at the Hilton Brighton Metropole.  
Please meet in the Thistle Brighton Lobby at 18:30.

This is ticketed at 50GBP and there are a limited number of spaces. Pre-reservation is required.



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# Saturday



## Saturday Session I: 9:00 - 10:30



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**Saturday Session I: 9:00 - 10:30**  
**ECSS - Interdisciplinary Perspectives**  
**Session Chair: Katarzyna Piórkowska**

**Room: Tennyson**

15766 9:00 - 9:30

*VS: A New Statistical Tool for the Analysis of Conditional Path Models*  
 Joyce Lok Yin Kwan, The Hong Kong Institute of Education, Hong Kong  
 Wai Chan, The Chinese University of Hong Kong, Hong Kong  
 Cherry Yik Ting Choi, The Chinese University of Hong Kong, Hong Kong

13646 9:30 - 10:00

*Do We Need Contemporization for Sustainability of the Craft?: A Case Study on Toda Embroidery*  
 Reena Aggarwal, National Institute of Fashion Technology, India

15819 10:00 - 10:30

*Cognitive Psychology as the Background of Behavioural Strategies*  
 Katarzyna Piórkowska, Wroclaw University of Economics, Poland

**Saturday Session I: 9:00 - 10:30**  
**EBMC - Interdisciplinary Topics**  
**Session Chair: Florin Codrut Nemtanu**

**Room: Shelley**

17880 9:00 - 9:30

*Overview of the State Funded Research Project ECOSOC - Methodology and Preliminary Findings*  
 Karlis Kreslins, Ventspils University College, Latvia

17164 9:30- 10:00

*Education and Business Management: A Strategic Management Review in Context*  
 Thi Thu Tra Nguyen, CNAM, France

15341 10:00 - 10:30

*The Impact of Corporate Social Responsibility on Smart Cities*  
 Florin Codrut Nemtanu, Politehnica University of Bucharest, Romania  
 Mirela Ileana Nemtanu, University of Economic Studies, Romania  
 Joern Schlingensiepen, University of Applied Sciences, Germany

**Saturday Session I: 9:00 - 10:30**  
**ECPEL - Politics**  
**Workshop Presentation**

**Room: Keats**

15558 9:00 - 10:30

*Bio Politics and Sadomasochism: From Bio Power to Bio Political Production*  
 Ofer Parchev, Haifa University, Israel

**Saturday Session I: 9:00 - 10:30**  
**ECSEE - Energy: Renewable Energy and Environmental Solutions**  
**Session Chair: Khaled Hossin**

**Room: Coleridge**

16196 9:00 - 9:30

*Development of a Solar Cooling System Based on a Fluid Piston Convertor*  
 Khamid Mahkamov, Northumbria University, UK  
 Gamal Hashem, Northumbria University, UK

15738 9:30- 10:00

*Renewable Energy on Marginalized Land: Technical, Social, Financial and Regulatory Barriers and Solutions*  
 Thiery Spiess, Ryerson University, Canada

15907 10:00 - 10:30

*Performance Evaluation for a 10 kW Solar Organic Rankine Cycle Power System to Operate in the UK Climate Conditions*  
 Khaled Hossin, Faculty of Engineering and Environment, Northumbria University, UK  
 Khamid Mahkamov, Faculty of Engineering and Environment, Northumbria University, UK

Saturday Session I: 9:00 - 10:30

Saturday Session I: 9:00 - 10:30

Room: Wordsworth

ECSEE - Environmental Sustainability & Environmental Management: Freshwater, Oceans and Seas

Session Chair: Omolara Lade

15703 9:00 - 9:30

*Exploring Links between Environmental, Economic and Social Indicators of Sustainability in Environmentally Degraded Areas: A Case Study in the Asopos*

Kostantinos Evangelinos, University of the Aegean, Greece

Nikoleta Jones, Open University, UK

Chrisovaladis Malesios, Democritus University of Thrace, Greece

Maria Aloupi, University of the Aegean, Greece

Jens Holtvoeth, University of Bristol, UK

15780 9:30- 10:00

*Everyday Water Consumption Practice in the Period of Scarcity: A Taiwanese Case Study*

Win-Ping Kuo, Chinese Culture University, Taiwan

15456 10:00 - 10:30

*Rainwater Harvesting in Nigeria: A Survey of Common Water Supply Practices*

Omolara Lade, University of Ibadan, Nigeria

David Oloke, University of Wolverhampton, UK

Coffee Break  
10:30 - 10:45

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## Saturday Session II: 10:45 - 12:15



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**Saturday Session II: 10:45 - 12:15**  
**ECSS - Interdisciplinary Perspectives on Gender**  
**Session Chair: Zhen Sun**

Room: Tennyson

15621 10:45 - 11:15

*The Issue of Women Poverty in Turkey in the Context of Capability Approach*  
 Senem Kurt Topuz, Abant Izzet Baysal University, Turkey  
 Hülya Erkanlı, Abant Izzet Baysal University, Turkey

11261 11:15 - 11:45

*Gendered Construction of Leisure: A Content Analysis of Tourism Print Ads of Macau*  
 Zhen Sun, Macau University of Science and Technology, Macau

15925 11:45 - 12:15

*European Enlargement and Women: An Analysis on Turkey*  
 Aysegul Gokalp Kutlu, Kocaeli University, Turkey

**Saturday Session II: 10:45 - 12:45**  
**EBMC - Interdisciplinary Topics (Extended Session)**  
**Session Chair: Ejionueme Ngozi**

Room: Shelley

15318 10:45 - 11:15

*Business Negotiation Power: How is it Used in the Arabian Gulf?*  
 Alexandre Anatolievich Bachkirov, Sultan Qaboos University, Oman

15344 11:15 - 11:45

*The Auditor: Director Power Conflict*  
 Larry Mead, University of Derby, UK

15870 11:45 - 12:15

*Co-Evolution of Internal and External Selection*  
 Ewa Stańczyk-Hugiet, Wrocław University of Economics, Poland  
 Katarzyna Piórkowska, Wrocław University of Economics, Poland  
 Sylwia Stańczyk, Wrocław University of Economics, Poland

16586 12:15 - 12:45

*Effects of the Re-Branding Campaign Strategies on the Image of Nigeria Abroad (2009-2014)*  
 Ejionueme Ngozi, Enugu State University of Science and Technology, Nigeria  
 Nebo Gerald, Enugu State University of Science and Technology, Nigeria

**Saturday Session II: 10:45 - 12:45**  
**ECPEL - International Law (Extended Session)**  
**Session Chair: Emre Turkut**

Room: Keats

17608 10:45 - 11:15

*Utilizing the Socialist's Thinking of International Law in Modern Era*  
 Chris Chu-Cheng Huang, National Tsing Hua University, Taiwan

18487 11:15 - 11:45

*Rights Not Privileges: The Human Right to Water in the Context of International Law - Spotlight on the Palestinian-Israeli Case*  
 Carly A. Krakow, New York University, USA

17051 11:45 - 12:15

*Turkey's EU Accession: Constitutional Implications of a Possible Membership*  
 Emre Turkut, Turgut Ozal University, Turkey

14152 12:15 - 12:45

*Failed States*  
 Serdar Ormek, Kocaeli University, Turkey

## Saturday Session II: 10:45 - 12:15

## Saturday Session II: 10:45 - 12:15

Room: Coleridge

ECSEE - Environmental Sustainability &amp; Environmental Management: Atmosphere and Air

Session Chair: Sonia Montecino

12638 10:45 - 11:15

*Study on SO<sub>2</sub> Poisoning for Low Temperature NH<sub>3</sub>-SCR Process Using MnFe-TNTs Catalysts*

TsongYu Lee, National Chiao Tung University, Taiwan

Sihyu Liou, National Chiao Tung University, Taiwan

Hsunling Bai, National Chiao Tung University, Taiwan

17842 11:15 - 11:45

*Using Statistical Downscaling of Atmospheric Stability Indices to Study Impacts of Climate Change on Air Quality in Pearl River Delta*

Chi-Shing Calvin Cheung, The Chinese University of Hong Kong, Hong Kong

Hung-Lam Steve Yim, The Chinese University of Hong Kong, Hong Kong

17801 11:45 - 12:15

*Fog: An Important Water Source in Arid Zones*

Sonia Montecinos, Departamento de Física, Universidad de La Serena, La Serena, Chile

Pilar Cereceda, Instituto de Geografía, Pontificia Universidad Católica, Santiago, Chile

## Saturday Session II: 10:45 - 12:15

Room: Wordsworth

ECSEE - Economic Sustainability

Session Chair: Marwa Mohamed Ali

14627 10:45 - 11:15

*An Impact Assessment of Green Initiatives of the Central Bank on the Environmentally Sustainable Banking in Bangladesh*

Shah Md Ahsan Habib, Bangladesh Institute of Bank Management, Bangladesh

Pinki Shah, University of Liberal Arts Bangladesh, Bangladesh

11192 11:15 - 11:45

*Effect of Seed Size on Seed Germination Rate of Adansonia Digitata from Five Natural Populations in Malawi*

Nellie Amosi, World Agroforestry Centre, Malawi

7496 11:45 - 12:15

*Is Clean Development Mechanism (CDM) Effective for Emission Reductions in Egypt?*

Marwa Mohamed Ali, Alexandria University, Egypt



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## Saturday Poster Session I: 10:45 - 12:15

Room: Library Terrace



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15688

*Quantifying Environmental Performance Improvements of a Refrigerant Recycling System Compared to the Conventional One in Railway Industry*

Yoon-Young Chun, Korea Railroad Research Institute, South Korea

Jae-Young Lee, Korea Railroad Research Institute, South Korea

Cheul-Kyu Lee, Korea Railroad Research Institute, South Korea

Yong-Ki Kim, Korea Railroad Research Institute, South Korea

16526

*From Environmental Impact Assessment Supervising to Social Sustainability and Environmental Justice: A Case Study of Taiwan's Environmental Impact Assessment*

Ya-Ting Chan, Bureau of Environmental Inspection, Taiwan

Shu-Li Liao, Bureau of Environmental Inspection, Taiwan

15741

*Optimal Allocation for Budget Constraint Companies in Borrowing Credits by Using Analytic Hierarchy Process and Linear Programming*

Feng Jiao, Newcastle University Business School, UK

Jingxin Dong, Newcastle University Business School, UK

16752

*The Impacts of the Family Allowance Program (Programa Bolsa Familia) on the Development of the UN Millennium Development Goal 1 – Eradication of Hunger and Poverty made by Brazil Between 2000-2015*

Albano Francisco Schmidt, Pontifícia Universidade Católica do Paraná, Brazil

Oksandro Osdival Gonçalves, Pontifícia Universidade Católica do Paraná, Brazil

15866

*General or Specific: Exploring the Determinant Structure of Science-Technology by Comparing Nanotechnology and Animal Cloning*

Jaesun Wang, Honam University, South Korea

Seoyong Kim, Ajou University, South Korea

Sunhee Kim, Seowon University, South Korea

15773

*The Effect of Poverty on Women's Health in Khewra City, Pakistan*

Asifa Batool, University of Agriculture, Pakistan

Javed Ahmed Khan, University of Agriculture, Pakistan

Munnazza Abbas Khan, University of Agriculture, Pakistan

Muhammad Iqbal Zafar, University of Agriculture, Pakistan

17799

*The Temporal and Spatial Development of Organic Agriculture in Turkey*

Aylin Yaman Kocadagli, University of Istanbul, Turkey

15355

*Multidimensional Performance Measures as Inductors of the Adoption of Best Practices and the Achievement of Projects' Goals*

Tiago Melo, Universidad de Salamanca, Spain

Hugo Roth Cardoso, Brazilian Micro and Small Business Support Service, Brazil

Pedro Beck Di Bernardi, Beck Gestao Empresarial, Brazil

18499

*The Different Impacts of Social Media Types on Communication Actions at Team-Learning Activities in Higher Education*

YeonKyoung Kim, Chung-Ang University, South Korea

Hae-Deok Song, Chung-Ang University, South Korea

Lunch Break

12:15 - 13:15

Saturday Spotlight Session I: 13:15 - 14:45

Saturday Spotlight Session I: 13:15 - 14:45

Room: Tennyson

ECPEL / EBMC Topics

Session Chair: Patricia Blazey

11419 13:15 - 13:45

*Governance in the European Union: Evidence from Global Indicators*

Lino Briguglio, Univeristy of Malta, Malta

Melchior Vella, Univeristy of Malta, Malta

15694 13:45 - 14:15

*Financial Slack and Firm Performance During an Economic Downturn*

Andreas Gruener, University of St. Gallen, Switzerland

Ingeborg Raastad, SEB AG, Germany

14452 14:15 - 14:45

*Challenges and Prospects of Granting Property Rights to Indigenous People and Forest Dwellers in Countries Housing Tropical Rainforests*

Patricia Blazey, Macquarie University, Australia

Hope Ashiabor, Macquarie University, Australia



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## Saturday Poster Session II: 13:15 - 14:45

Room: Library Terrace



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14465

*Modification of Zeolite Adsorbent for Treatment of NH<sub>3</sub> Emergency Release*

Chengmin Wu, National Chiao Tung University, Taiwan

Shinyu Chen, National Chiao Tung University, Taiwan

Hsunling Bai, National Chiao Tung University, Taiwan

15732

*Publication Bias in Measuring Anthropogenic Climate Change*

Dominika Reckova, Charles University, Czech Republic

Zuzana Havranek, Charles University, Czech Republic

15675

*Application Feasibility Assessment for the Carbon Emission Trading System of Railroad Sector in Korea: Environment and Economic of GHG Reduction*

Jae-Young Lee, Korea Railroad Research Institute, South Korea

Yoon-Young Chun, Korea Railroad Research Institute, South Korea

Tae-Soon Kwon, Korea Railroad Research Institute, South Korea

17882

*Performance Evaluation of Catalysts Using Various Carbon Supports for Lithium-Air Battery*

Hyelee Park, Inha University, South Korea

Inyeong Park, Inha University, South Korea

Dongwook Lim, Inha University, South Korea

Young Il Choi, Inha University, South Korea

Sung-Hyeon Baeck, Inha University, South Korea

17886

*Synthesis and Performance Evaluation of MnO<sub>2</sub>/RuO<sub>2</sub>/Carbon Composite Catalyst for Lithium-Air Battery*

Yoonkyung Kim, Inha University, South Korea

Young Il Choi, Inha University, South Korea

Dohyung Lee, Inha University, South Korea

Dongwook Lim, Inha University, South Korea

Sung-Hyeon Baeck, Inha University, South Korea

17891

*CuO/ZnO/Al<sub>2</sub>O<sub>3</sub> Catalyst Prepared with Various Precursors for the Synthesis of Methanol*

Minho Mun, Inha University, South Korea

Jaeyong Jang, Inha University, South Korea

Tae Sun Chang, Korea Research Institute of Chemical Technology, South Korea

Beom-sik, Korea Research Institute of Chemical Technology, South Korea

Sung-Hyeon Baeck, Inha University, South Korea

15777

*The Role of Taiwanese News Media in Public Understanding and Engagement in Clean Energy Decision-Making*

Mei-Ling Hsu, National Chengchi University, Taiwan

12209

*Agglomeration of Coal Fines Using Wet Microalgae Biomass as a Sole Binder*

Sibongiseni Gaqa, Nelson Mandela Metropolitan University, South Africa

Ben Zeelie, Nelson Mandela Metropolitan University, South Africa

15567

*Analysis of a Low Emission Power Plant: An Economic Perspective*

Rukayat Hameed, Cranfield University, UK

Emanuele Pagone, Cranfield University, UK

Coffee Break

14:45 - 15:00

## Saturday Session III: 15:00 - 16:30

**Saturday Session III: 15:00 - 16:00**  
**ECSS - Cultural and Media Studies**  
**Session Chair: Gehad Soliman Kenawy**

**Room: Tennyson**

13700 15:00 - 15:30  
*Minority Representation and the Media Studies*  
 Yoshie Nijima, Keio University, Japan

8419 15:30 - 16:00  
*Developing Social Media Policy for Public Agencies in Egypt*  
 Gehad Soliman Kenawy, American University in Cairo, Egypt

**Saturday Session III: 15:00 - 16:30**  
**EBMC - Business Administration and Business Economics**  
**Session Chair: Basil Englis**

**Room: Shelley**

17803 15:00 - 15:30  
*Entrepreneurial Orientation and Survivability of Banks in Nigeria: The Mediating Role of Human Capital Management*  
 Justin Mgbeci Odinioha Gabriel, Rivers State University of Science and Technology, Nigeria  
 Kpakol Gbaraka Arbolu, International Center for Management Research and Training, Nigeria

17677 15:30 - 16:00  
*Success and Performance: A UK SMES Perspective*  
 Boran Li, Edinburgh University, UK  
 Jake Ansell, Edinburgh University, UK  
 Tina Harrison, Edinburgh University, UK

17753 16:00 - 16:30  
*Development of Market-Driven Business Models in the IT Industry: The Power of the Customer in Shaping Business Models?*  
 Basil Englis, Berry College, USA  
 Kasia Zalewska-Kurek, Nikos University of Twente, The Netherlands  
 Paula Danskin Englis, Berry College, USA

**Saturday Session III: 15:00 - 16:30**  
**ECPEL Law - Interdisciplinary Topics**  
**Session Chair: Emanuele Tuccari**

**Room: Keats**

15815 15:00 - 15:30  
*Legal Nature of Resolutions Issued by the Bodies of the Self - Government of Legal Advisors - EU Perspective*  
 Marzena Swistak, Maria Curie - Skłodowska University in Lublin, Poland

15783 15:30 - 16:00  
*Shut the Gate behind You: The Exercise of Sub-Delegated Powers by Local Authority Administrators*  
 Andrew William Noble, Coventry University College, UK

17377 16:00 - 16:30  
*Change of Circumstances and Judicial Power: A European Perspective of Contract Law*  
 Emanuele Tuccari, Catholic University of the Sacred Heart, Italy



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## Saturday Session III: 15:00 - 16:30



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**Saturday Session III: 15:00 - 16:00** **Room: Coleridge**  
**ECSEE - Environmental Sustainability: Human Consumption & Waste**  
**Session Chair: Marta Rodríguez-Quijano**

16669 15:00 - 15:30

*Towards an Inventory of Best Practices for an Efficient Gypsum Recycling Value Chain*

Ana Jiménez-Rivero, Technical University of Madrid, Spain  
 Ana de Guzmán-Báez, Technical University of Madrid, Spain  
 Marta Rodríguez-Quijano, Technical University of Madrid, Spain  
 Justo García-Navarro, Technical University of Madrid, Spain

16667 15:30 - 16:00

*Gypsum to Gypsum (GtoG): The European Life+ Project That Aims to Transform the Gypsum Waste Market*

Marta Rodríguez-Quijano, Technical University of Madrid, Spain  
 Ana Jiménez-Rivero, Technical University of Madrid, Spain  
 Ana de Guzmán-Báez, Technical University of Madrid, Spain  
 Justo García-Navarro, Technical University of Madrid, Spain

**Saturday Session III: 15:00 - 16:30** **Room: Wordsworth**  
**ECSEE - Social Sustainability and Sustainable Living**  
**Session Chair: Vassilios Makrakis**

17735 15:00 - 15:30

*Development of a Behavioural Change Tool for Energy Efficiency in Buildings: A Case of Nigeria Office Buildings*

Mafimisebi I. Blessing, Anglia Ruskin University, UK  
 Jones Keith, Anglia Ruskin University, UK  
 Nwaubani Sunny, Anglia Ruskin University, UK

8092 15:30 - 16:00

*Depositions of Acid Aerosols and Black Carbon from Biomass Burning over the Sakaerat Biosphere Reserve Forest, Thailand*

Phuvasa Chanonmunag, Thailand Institute of Scientific and Technological Research, Thailand  
 Pojanie Khummongkol, King Mongkut's University of Technology Thonburi, Thailand  
 Khattiya Sukprasert, King Mongkut's University of Technology Thonburi, Thailand  
 Yutthana Tantiwivat, Thailand Institute of Scientific and Technological Research, Thailand  
 Taksin Artchwakom, Thailand Institute of Scientific and Technological Research, Thailand

16319 16:00 - 16:30

*Piloting the CLIMASP-Tempus Interdisciplinary Minor in Climate Change and Sustainability Policy: Outcomes Achieved*

Vassilios Makrakis, University of Crete, Greece  
 Nelly Kostoulas, University of Crete, Greece

Coffee Break  
 16:30 - 16:45

Saturday Spotlight Session II: 16:45 - 18:15

Saturday Spotlight Session II: 16:45 - 18:15

Room: Tennyson

ECSEE - Energy

Session Chair: Tom Houghton

16865 16:45 - 17:15

*The Role of Regional Strategies in Realising Energy Neutrality in Regions: Experiences from the EU-LEE Project SUSREG*

Bauke de Vries, Saxion University of Applied Sciences, The Netherlands

Kjell Erik Bugge, Saxion University of Applied Sciences, The Netherlands

Theo de Bruijn, Saxion University of Applied Sciences, The Netherlands

14259 17:15 - 17:45

*China's Impact on the World Oil Price*

Raymond Li, Hong Kong Polytechnic University, Hong Kong

13715 17:45 - 18:15

*Energy Security: Relative Power in Australia and Northeast Asia Energy Trading Relations*

Tom Houghton, Curtin University, Australia

Fran Ackermann, Curtin University, Australia



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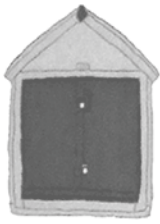


# Sunday





## Sunday Session I: 09:00 - 10:30



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**Sunday Session I: 09:00 - 10:00****ECSS - Sociology****Session Chair: Hsing-Kuang Chao****Room: Tennyson**

8571 9:00 - 9:30

*A Study of the Social Causes of Over-Medication in China*

Yifan Wang, University of Essex, UK

15590 9:30 - 10:00

*The Encounter of Global Charismaticism and Local Religious Culture in the Transformation of a Presbyterian Church in Taiwan*

Hsing-Kuang Chao, Tunghai University, Taiwan

Wei-pang Wang, Tunghai University, Taiwan

**Sunday Session I: 09:00 - 10:30****EBMC - Interdisciplinary Topics****Session Chair: Ioannis Ganas****Room: Shelley**

17956 9:00 - 9:30

*EU-Morocco Deep and Comprehensive Free Trade Agreement: Moroccan Small and Medium Firms' Perception of Export Barriers*

Adib Bensalem, ESCE Paris, France

Sangeeta Khorana, Bournemouth University, UK

13418 9:30 - 10:00

*Determinants of Open Innovation in Clusters the Portuguese Case*

Antonio Bob Santos, ISCTE-IUL, Portugal

14819 10:00 - 10:30

*Inventory Management and Firm's Performance During the Period of Financial Constraints: An Empirical Analysis of SME Sector in Greece*

Ioannis Ganas, Technological Educational Institute of Epirus, Greece

Alina Hyz, Piraeus University of Applied Sciences, Greece

**Sunday Session I: 09:00 - 10:00****ECPEL - Human Rights Law & Social Justice****Session Chair: Maria Maddalena Glungi****Room: Keats**

15851 9:00 - 9:30

*Constitutionally-Protected Minority Rights: A Comparative Analysis*

Ezgi Fulya Akkus, Afyon Kocatepe University, Turkey

15993 9:30 - 10:00

*Counterbalancing the ECJ's Dominion on Fundamental Rights: Is The Fundamental Rights Agency of the EU the Solution?*

Maria Maddalena Glungi, University of Milan, Italy

## Sunday Session I: 09:00 - 10:30

**Sunday Session I: 09:00 - 10:30****ECSEE - Renewable Energy and Environmental Solutions**

Session Chair: Temitope Elizabeth Odetoeye

Room: Coleridge

16900 9:00 - 9:30

*Research on Methane Fermentations of Seasonal Agricultural Waste*

Victoria Cortés Matamoros, Zamorano Panamerican Agricultural University, Honduras

Aurelio Hernández Muñoz, Polytechnical University of Madrid, Spain

11494 9:30 - 10:00

*Study on Enhancing the Bioethanol Yield of Rice Husk by Microwave-Assisted Alkaline Peroxide Pretreatment*

Hsunling Bai, National Chiao Tung University, Taiwan

Anchi Chen, National Chiao Tung University, Taiwan

17646 10:00 - 10:30

*A Review of Bioenergy Policy Implementation in Sub Saharan Africa: Opportunities and Challenges: The Cases of Nigeria, Ghana, Malawi*

Temitope Elizabeth Odetoeye, University of Ilorin, Nigeria

James Omotayo Titiloye, Swansea University, UK

**Sunday Session I: 09:00 - 10:30****EBMC - Business Administration and Business Economics**

Session Chair: Yasin Volkan Pehlivanoglu

Room: Wordsworth

17925 9:00 - 9:30

*What Precedes Flexible Role Orientation?*

Lintang Ayuninggar, Universitas Sebelas Maret, Indonesia

15892 9:30 - 10:00

*A Novel Business Model Based on Real Time Bidding and Online Video Interaction Technology*

Jiesheng Zhang, Shanghai Jiao Tong University, China

Chengyan Feng, Shanghai Jiao Tong University, China

Vincent Chang, Shanghai Jiao Tong University, China

Jia Tan, Shanghai Jiao Tong University, China

Wayne Wu, AVD Digital Media, China

13207 10:00 - 10:30

*Long-Term Expectations in Turkish Air Transport Market*

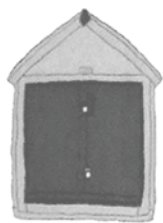
Yasin Volkan Pehlivanoglu, Air Force Technical Schools, Turkey

Ilhan Atik, NCO College, Air Force Technical Schools, Turkey

Coffee Break  
10:30 - 10:45

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## Sunday Session II: 10:45 - 12:15



**Sunday Session II: 10:45 - 12:15**  
**ECSS - Education & Social Welfare**  
**Session Chair: Sri Kartikowati**

**Room: Tennyson**

16326 10:45 - 11:15

*Geographical Exclusion to Education Innovation: BRAC Boat School*

Nawra Mehrin, Research and Evaluation Division, BRAC, Bangladesh

Nowreen Yasmin, Research and Evaluation Division, BRAC, Bangladesh

15465 11:15 - 11:45

*Enhancing Women's Capacity in Peace Building Through the Open and Distance Learning System*

Abiodun Joseph Oluwadare, National Open University of Nigeria, Nigeria

15916 11:45 - 12:15

*Community Empowerment to Enhance Demographic Awareness: An Educational Approach from Indonesia*

Sri Kartikowati, University of Riau, Indonesia

Nur Laila Meilani, University of Riau, Indonesia

Agrina, University of Riau, Indonesia

**Sunday Session II: 10:45 - 12:15**  
**EBMC - Interdisciplinary Topics**  
**Session Chair: Olusunmbo Ayanfeoluwa Olusanya**

**Room: Shelley**

16671 10:45 - 11:15

*Narratives About the Need to Develop the Sense of Cooperation of Managers*

Kim Vu, CNAM, France

15754 11:15 - 11:45

*Rugby Results and Investor Sentiment in New Zealand*

Andrew Holmes-Galloway, Victoria University of Wellington, New Zealand

Mohammed Khaled, Victoria University of Wellington, New Zealand

12960 11:45 - 12:15

*Non-Standard Work in the Nigerian Informal Economy*

Olusunmbo Ayanfeoluwa Olusanya, University of Lagos, Nigeria

**Sunday Session II: 10:45 - 12:15**  
**ECPEL - Political Theory & Representation**  
**Session Chair: Chandrakant Yatanoor**

**Room: Keats**

12597 10:45 - 11:15

*The Legitimate Act of Political Aggression and the Theory of Mutual Rights of Citizens and Government*

Alexander Mehdi Shokri, Free University of Berlin, Germany

12206 11:15 - 11:45

*A Comparative Study on Political Responses to Issues of Insurgencies and Counterinsurgencies between the United States and Nigeria*

Basil Chuka Okoli, Federal University Oye-Ekiti, Nigeria

15891 11:45 - 12:15

*Power Transition in South Asian Politics*

Chandrakant Yatanoor, Gulbarga University, India

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Sunday Session II: 10:45 - 12:15

Sunday Session II: 10:45 - 12:15

Room: Coleridge

ECSEE - Energy: Renewable Energy and Environmental Solutions

Session Chair: Suppajee Pornpongmetta

15885 10:45 - 11:15

*Numerical Analysis for Energy Performance of Ground Source Heat Exchanger Under Environmental Conditions of Istanbul, Turkey*

Öykü Duman, Yıldız Technical University, Turkey

Hakan Demir, Yıldız Technical University, Turkey

Alihsan Koca, Mir Research and Development Co., Turkey

16743 11:15 - 11:45

*Experimental Study on Module Type WGS Reactors in HT-PEMFC Steam Reformer*

Taehyun Jo, Hanyang University, South Korea

Jinsan Kim, Hanyang University, South Korea

Junhee Han, Hanyang University, South Korea

Bonchan Koo, Hanyang University, South Korea

Dohyung Lee, Hanyang University, South Korea

16880 11:45 - 12:15

*Additional Electricity Generator Model From Vehicle Movement Within an Industry Area*

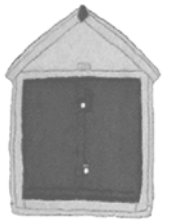
Suppajee Pompongmetta, Kasetsart University, Thailand

Monthon Thanuttamavong, Kasetsart University, Thailand

Vipak Jintana, Kasetsart University, Thailand

Lunch Break  
12:15 - 13:15

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## Sunday Session III: 13:15 - 14:45



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**Sunday Session III: 13:15 - 14:45** **Room: Tennyson**  
**ECSS - Anthropology, Archaeology, Cultural Studies and Humanities**  
**Session Chair: Halina Sendera Mohd. Yakin**

15684 13:15 - 13:45

*Language as a Discourse of Legitimate Power*  
 Saumya Dey, O P Jindal Global University, India

14387 13:45 - 14:15

*Power Dynamics in Development-Induced Resettlement*  
 Teboho Mosuo-e-Tsietsi, Rhodes University, South Africa

15312 14:15 - 14:45

*The Semiotic of Bangkai-Bangkaian: A Special Space for the Spirit*  
 Halina Sendera Mohd. Yakin, University of Malaysia Sabah, Malaysia  
 Andreas Totu, University of Malaysia Sabah, Malaysia

**Sunday Session III: 13:15 - 14:45** **Room: Shelley**  
**EBMC - Business Administration and Business Economics**  
**Session Chair: Aylin Ataay**

14194 13:15 - 13:45

*Study of Factors Influencing Corporate Politics and their Functioning Mechanisms in China*  
 Qinglan Chen, Xiamen University of Technology, China  
 Bingxuan Xiao, Richpower Tech Limited, China  
 Chiu-Chi Wei, Chung-Hua University, Taiwan  
 Børge Obel, Aarhus University, Denmark

14284 13:45 - 14:15

*The Effect of Work Family Conflict on Employees Job Attitudes and Mediating Role of Organization Citizenship Behavior: a Study of the Banking Sector of Pakistan*  
 Mohsin Bashir, Government College University Faisalabad, Pakistan  
 Sidra Rana, Government College University Faisalabad, Pakistan  
 Muhammad Imran Ali, Bank Alfalah Limited, Pakistan

18082 14:15 - 14:45

*Antecedents of Top Management Succession and Successor Origins: Evidences From an Emerging Market*  
 Aylin Ataay, Galatasaray University, Turkey

**Sunday Session III: 13:15 - 14:15** **Room: Keats**  
**ECPEL - Economics**  
**Session Chair: Omphemetse S. Sibanda**

10116 13:15 - 13:45

*The Impact of Health on Labour Productivity in Nigeria From 1970 to 2012, Applying the Standard Neo-Classical Growth Framework*  
 Ephraim Ikechukwu Ugwu, Federal University, Nigeria  
 Yakubu Suleiman, Kogi State University - Oye-Ekiti, Nigeria

10205 13:45 - 14:15

*Is the BRICS House Built on a Dumping Ground?: The Impact of South Africa's Anti-Dumping Actions against Products from Brazil, India*  
 Omphemetse S. Sibanda, University of South Africa, South Africa

## Sunday Session III: 13:15 - 14:45

**Sunday Session III: 13:15 - 14:45****Room: Coleridge****ECSEE - Energy: Renewable Energy and Environmental Solutions****Session Chair: Fatai Olasunkanmi Raji**

10175 13:15 - 13:45

*The Properties and Suitability of Corn Stover for Co-Gasification with Coal in a Computer Simulated Downdraft Gasifier System*

Anthony Anukam, University of Fort Hare, South Africa

Sampson Mamphweli, University of Fort Hare, South Africa

Polycarp Mabizela, University of Fort Hare, South Africa

Edson Meyer, University of Fort Hare, South Africa

17857 13:45 - 14:15

*Residual Biomass: A Silver Bullet to Ensure a Sustainable Bioeconomy?*

Swinda F. Pfau, Radboud University Nijmegen, The Netherlands

15977 14:15 - 14:45

*Partial Gasification of Different Types of Biomass in a Fluidized Bed Gasifier*

Fatai Olasunkanmi Raji, The Polytechnic, Nigeria

A.A Dare, University of Ibadan, Nigeria

I.A Adeyemi, Obafemi Awolowo University, Nigeria

Festus Adedamola Adebayo, The Polytechnic, Nigeria

**Sunday Session III: 13:15 - 14:15****Room: Wordsworth****ECPEL / ECSS - Interdisciplinary Perspectives on Human Rights****Session Chair: Monika Florczak-Wątor**

14466 13:15 - 13:45

*The Under-Researched Topic of Migrants' Well-Being in the Context of the Greek Crisis: Critically Discussing Power Structures*

Maria Psoinos, St George's University of London and Kingston University, UK

15990 13:45 - 14:15

*Positive Obligations of the State Concerning the Protection of Human Rights*

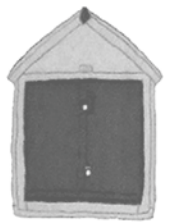
Monika Florczak-Wątor, Jagiellonian University, Poland

Coffee Break

14:45 - 15:00

**15:00 - 15:30****Conference Closing Session****Room: Tennyson Suite**

Join us for a conference highlights photography slideshow and closing remarks from Dr Joseph Haldane (IAFOR President) and Professor Stuart Picken (IAFOR Chair & Conference Chair).



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# Virtual





## Virtual Presentations



Virtual presentations are online video presentations of papers. They can be viewed during and after the conference at [youtube.com/user/AsianConferences](https://www.youtube.com/user/AsianConferences)

15422

*Case Study on the Business Performance of Suppliers to the Portuguese Health System During the Period of International Financial Assistance*

Ricardo Brito Barros, Universidade Europeia, Portugal

17899

*The Changing Perception of the Other in Europe in Post Cold War Period*

Metin Aksoy, University of Selcuk, Turkey

Gulsah Koprulu, University of Selcuk, Turkey

15424

*Magnetic Separation of Fine Particles from Process Water Circuits in the Steel Industry*

Mansour Saiepour, Tata Steel Group Environment, UK

Martin Hubrich, VDEh-Betriebsforschungsinstitut GmbH (BFI), Germany

15643

*Integrated Optimisation of Blast Furnace Gas Wash Water Treatment, Reuse and Cost Savings*

Mansour Saiepour, Tata Steel Group Environment, UK

Kokil Jain, Process Integration Limited, UK

Yuhang Lou, Process Integration Limited, UK

8567

*Removing Market Barriers for Energy-Efficient Building Renovation*

Başak Kundakçı Koyunbaba, Yaşar University, Turkey

Sevil Sanyıldız, Yaşar University, Turkey

Ayça Kırımata, Yaşar University, Turkey

Cemre Uğurlu, Yaşar University, Turkey

18059

*Identifying Material and Energy Cost Categories of Forest Products Production Using Material Flow Cost Accounting*

Konstantinos G. Paspopyropoulos, University of Thessaloniki, Greece

Dimitrios Karamanolis, University of Thessaloniki, Greece

14872

*Do Ideas of the Green Growth Really Matter in Europe? Spatio-Temporal Analysis*

Elżbieta Antczak, University of Lodz, Poland

12780

*Ecocinema in the Anthropocene Era*

James Reid, Akita International University, Japan

Filippo Gilardi, University of Nottingham, Ningbo, China

11468

*Are We on the Same Jobsite? Expectations of Millennial Students vs. Construction Industry Employees*

Christine Piper, Clemson University, USA

Varahee Madadi, Clemson University, USA

17720

*Whaling in the Antarctic and the Power of Public International Law*

James C. Fisher, University of Tokyo, Japan

15913

*The Fight against Impunity for Grand Corruption: Prosecuting Kleptocracy as an International Crime*

Bärbel Schmidt, Independent Consultant, Germany

17701

*Social Capital and Conflict in a Virtual Community*

Ioana-Alexandra Rusu, University of Bucharest, Romania

## Virtual Presentations

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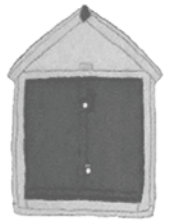
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## 附錄二、海報資料







# From Environmental Impact Assessment Supervising to Social Sustainability and Environmental Justice -A Case Study of Taiwan's Environmental Impact Assessment

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## Introduction

The Environmental Impact Assessment Act (EIA Act) was announced in Taiwan, 1994. The aims of EIA Act is to prevent and mitigate the adverse impact of development activity on the environment in order to achieve the goal of environment protection. 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 supervised by Bureau of Environmental Inspection (of Taiwan EPA). In this study, collected and arranged some cases of development activity of Taiwan's EIA, is to discuss about making economic development compatible with environmental conservation, pursuing the social sustainability and environmental justice.

## Results and Discussion

Some EIA activities were demand of additional requirements, such as ecological protection and cultural heritage savings. The examples are summarized as follows:

A. For constructing Taiwan High Speed Rail, in the meantime consider preseving the Pheasant-tailed Jacana's habitat, the developer cooperated with local government and non-governmental organizations to rebuild the restoration area with 15 ha, and then there was a growth in the number of Jacanas <sup>[1]</sup>.



Fig.1 Results of Jacana restoration.

B. When the season of Euploea's migration comes, one of their main migratory paths needs to pass through the highway. The developer applies the protective barrier-nets to let the butterflies fly higher and close one lane of the highway to reduce the chance of roadkill <sup>[2]</sup>.

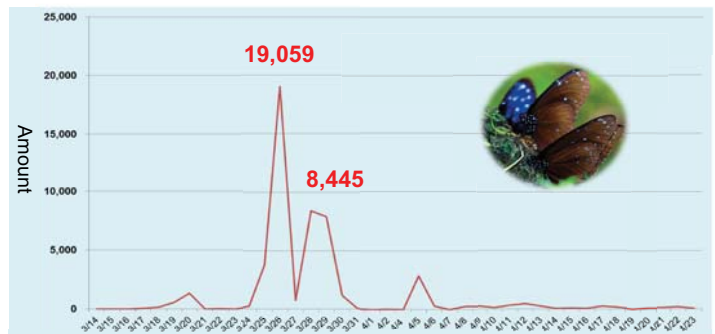


Fig.2 The amount of Euploea overflown barrier-nets.

C. In Suhua Highway Improvement Project, the developer implement archeological monitoring during the construction period, and saving the invaluable cultural heritage <sup>[3]</sup>.

## Conclusions

EIA supervising is one of the method to achieve environmental protection and sustainability. By EIA Act, the competent authority could mitigate adverse impact on the environment and attain sustainable environment.

### Reference:

[1] Pheasant-tailed Jacana Eco-Educational Nature Park

[2] Taiwan Area National Freeway Bureau, Ministry of Transportation and Communications

[3] Suhua Improvement Engineering Office, Directorate General of Highways, Ministry of Transportation and Communications