

## 參加第37屆北美環境教育學會年會出國報告

### 壹、出國目的：

本次奉派出國目的在參加美國堪薩斯州（Kansas）威奇塔（Wichita）市舉行的「第37屆北美環境教育學會年會」（North Association For Environmental Education NAAEE），該學會自1971年舉辦至今已37屆，每次皆為國際間環境教育界的盛會，有來自世界各地從事環境教育工作者，大家就其推動環境教育經驗進行熱烈討論、交流與心得分享。

本署為負責環境保護教育政策、方案之研訂及推動之主管機關，為了解各國推動環境教育執行情形，希望藉由派員參加該年會蒐集國際間環境教育發展趨勢與現況，以做為本署未來推動環境教育工作之參考。

### 貳、會議行程及地點：

日期	地點	工作內容
10月13-14日	台北至美國堪薩斯州威奇塔市	起程
10月15日-17日	美國堪薩斯州威奇塔市	參加年會
10月18-20日	美國堪薩斯州威奇塔市至台北	返程

此次會議位於美國坎薩斯洲（Kansas）威奇塔（Wichita）市，該市是坎薩斯州最大的城市，位於美國正中央，是屬於都會型的城市，擁有 50 萬人口，也是坎薩斯州的文化、工業及金融中心。會議地點在座落於景色優美的阿肯色河(Arkansas River)凱悅酒店旁的會議中心舉行。



（阿肯色河旁的凱悅酒店）



（會議中心）

### 參、會議內容：

零、本次會議分 8 個主軸進行，其議題及內容略述如下：

#### （一）藝術、文化與環境的教育：

1. 學習藝術與文化(涵蓋了考古學、建築學、視覺藝術與音樂)，如何融入環境的教學與學習。
2. 藝術家的創造力可以幫助解決環境上的問題與激發社區之間變得更有參與性與原則性。

## (二)環境保護教育：

1. 探索如何結合人民與土地，提供他們在維護大自然與文化資源相關行動時所需要的工具。
2. 在發展技能、價值觀、知識時需要去著重於所有層次的環境議題的保護與解決方案。

## (三)能源教育：

1. 能源的所有層面，從它的生產、消費及清理都對於境有著深遠的影響。
2. 市民們應該了解這些影響，也應該知道如何去降低對於他們自己影響的方法。
3. 能源效益與可恢復能源將是一個特別的重點，主要探討提供能源教育的創新與有效益的方法。

## (四)高階層次環境教育的最佳實施：

1. 許多機構會協助建立下屬單位來建立有關環境上的文獻資料。
2. 如何在有限的資源情況下，有效的去推廣策略。
3. 相關機構如何落實推動環境教育課程。

## (五)環境的審判(正義)環境的健康與氣候的變化

1. 對於那些容易受環境污染的社區群體，如何正視他們的<sub>健康</sub>問題。
2. 當與生俱來與邊緣化的全球性居民產生疾病、饑餓與失去土地、生計以及文化習慣改變時，將會付出嚴重的代價，而氣候的變化就是最近最棘手的環境審判議題。

## (六)食物、農業與環境教育

1. 有關食物、農業與環境上的議題，如何建立察覺知識與技能以影響個人與環境上的健康。
2. 學習去幫助孩童與成人建立食物生產、加工過程、生態足跡以及食物選擇及維護身體健康。

## (七)早期孩童的環境教育

1. 研究結果顯示，年幼的孩童藉由到戶外觀察、探索與遊戲是可以得到良好的環境教育知識。
2. 從早期的孩童階段的重覆性經驗可以建立環境文獻與服務人員的工作管理。

3. 對環境教育的專業人員而言，年幼孩童的環境教育可開啟了許多新的機會。

#### (八) 宗教、心靈層面與環境教育

1. 在我們的社會中，信仰、宗教與心靈層面扮演了很重要的角色。

2. 如何讓環境教育者去結合身體與心靈來強調複雜的環境議題。

一、本次年會舉行方式分別以研討會、座談會、專題演講、研究成果報告等多元化會議方式來探討、分享各主題執行過程及成果，由於負責學校環境教育的推動，所以參與的研討會議題都與學童的環境教育有關。

#### (一) 參與研討會會議主題及內容略述如下：

**主題一：日本教師在環境教育訓練課程的發展、執行**

報告者：Yasuhiko Okamoto (University 日本麻布大學), (National Institute for Educational Policy Research of Japan 日本國家教育政策研究機構)

內容:日本國家教育政策研究機構與日本麻布大學合作，以關東地區 Sagami 河川與 Loam layer 砂黏土做為教學教材，利用寒暑假辦理當地 32 所小學教師們 6 天的訓練課程，上課內容包括發覺大自然的多樣性、了解 Sagami 河川的自然環境的特性及到 Loam layer 地區體驗大自然，藉由實際親身的經驗來學習如何在教學教材的準備及設計課程，藉以訓練學童增加對於該地區大自然環境的學習興趣讓他們有責任感地去學習與愛護自己的生長環境。



(與 Yasuhiko Okamoto 講者合影)

## 主題二：在 Kansas 郊區三至八年級學童的環境教育夏令營

報告者：Brenda McMurphy 等 (Topeka Public Schools)

內容：

1. 這個環境教育夏令營是當地基金會與學校合辦，針對居住於 Topeka, Kansas 地區三至八年級學童所舉辦，主題為「在 Kansas 環境保護與如何維持水的品質」，目的是要讓參與學生在遊戲玩樂中學習到環境保護的重要。
2. 該夏令營以一星期為一個梯次，每梯次活動費用美金 20 元，由 11 位專業的環境教育夏令營活動指導人員帶領學生在遊戲中獲得環境保護相關知識，參加學生每天早上 8:00 集合，由校車送到活動地點，安排不同單元的主題，讓學生體驗，下午 2:30 活動結束後再由校車接回來，一共有 300 個學生參加。
3. 夏令營的活動安排包括下列各項：
  - ◆ 爬山
  - ◆ 釣魚
  - ◆ 認識水源與相關資訊（池塘青蛙溪流的實

地調查)

- ◆ 獨木舟 (安全防範措施的教導與執行)
- ◆ 尋找化石
- ◆ 廢水處理
- ◆ 參觀廢棄物掩埋場



(夏令營海報)



(與夏令營講者群合影)

### 主題三:探討每日飲食對於環境的衝擊

報告者: Dylan Hass(Friends of the High School for Environmental Studies, New York)

內容:

1. 介紹每日飲食食物的來源 (超級市場、大賣場、農夫市場、菜市場、自己或親友菜園等)。
2. 如何製做無添加任何香料、有益於我們的健康的食物



(現場講師教導參與者分組以鮮奶油自製奶油，由現場參與者輪流將鮮奶油不停地搖晃約 40 分鐘，直至成固體狀即可沾麵包食用，結果自製奶油因無任何添加物，食用起來味道更加美味、香氣四溢)。

3. 如何選擇正確的食物:為了環保，建議食用當地食材(美國各賣家對「當地食材」的定義不同；如由幾英哩至 100 英哩，甚至 200 英哩之內都算，甚至某些州把同一州生產的食物都定義為當地食物 Local food)。
4. 了解「食物哩程」(food miles)的定義與意義:指食物由生產地經由加工、製作包裝過程再送到賣場最後到達消費者的連鎖關係。
5. 如何分辨有機與非有機蔬果  
(講者準備有機與非有機蘋果，供現場參與者試吃，以比較口感、味道不同)。

6. FRESH 在高中的環境研究課程：讓學生們可以學習探討每日飲食的選擇對於環境與個人健康的衝擊，以及學習美國各種不同的食物生產供應系統。
7. 美國的學生將可樂、漢堡、薯條當作主食，所以此課程也著重引導學生這部份知識與行為的改變，結果顯示學生上完相關課程已經可以做到減少每週少吃這些垃圾食物的次數。



(有益身心健康的食物與水果)



(與 Dylan Hass 講者合影)

#### 主題四：參與 Wichita Rainbows 社區服務

1. 為了讓參加會議人員實際參與當地社區服務活動，在研討會的其中兩天的上、下午時段各有一次 2 小時的社區服務活動，安排參與者到一幼兒教育機構（Rainbows United）協助佈置花園的工作，這是一所接受嬰兒到 5 歲幼兒的教育機構（包括需要特殊教育的孩童），由於該園人手不足，所以希望藉由外力幫忙佈置花園。
2. 參與者座車抵達後，由園長先解釋希望如何佈置花園、需要的工作步驟，再由參與者分組進行挖土、翻土、混入堆肥土、最後再種植各式各樣的花苗。
3. 活動時間雖只有 2 小時，但藉由眾人力量，2 個小時內我們已將 Rainbows 幼兒園佈置成一座花團錦簇美麗的花園。（如下圖）



(大家忙著佈置花園)



(即將完工的花圃一角)

(巧遇周儒教授同學 Donny Roush 教授)

當地報紙報導我們參與 Wichita Rainbows 社區服務) 的新聞 (如後頁)



# RAINBOWS TEACHES KIDS TO PLAY



Nando Marquez, 8, plants a flower at Rainbows United Inc.'s Kids' Cove outdoor classroom. The group wants kids "to know it's OK to get messy sometimes outdoors. It's OK to dig in the dirt," says Beth Reeder, director of staff development at Rainbows. Photos by Jeff Tuttle/The Wichita Eagle

## Outside, the classroom



Volunteers came from around the area to help build the outdoor classroom, including Nando Marquez, who levels out sand at the west-side campus.

BY CHRISTINA M. WOODS  
The Wichita Eagle

**T**he sky is its ceiling. Grass is its floor. Dirt, flower beds and sand make up the "desks" for lesson plans inspired by wiggly worms, floating butterflies, cool breezes and other wonders of nature.

Rainbows United Inc.'s Kids' Cove outdoor classroom is under construction.

Community donations and volunteer labor are realizing organizers' dream for the classroom at 2258 N. Lakeway in west Wichita.

Students will become more familiar with playing and learning in nature, organizers said. They're working to get the classroom certified with organizations such as the Arbor Day Foundation.

"We want kids to know and to appreciate the outdoors," said Beth Reeder, director of staff development. "We want them to know it's OK to get messy sometimes outdoors. It's OK to dig in the dirt."

Because Rainbows works with children of varied abilities, the classroom offers learning opportunities for all students, said Jana Cain, Kids' Cove site director.

"A visually impaired student can still smell the flowers,"

### you know DOOR CLASSROOM

To volunteer or donate items for Rainbows United's Kids' Cove outdoor classroom, call Michelle, 316-267-KIDS.

## 主題五：訓練老師如何去教導孩童學習大自然世界

報告者：

- ◆ Courtney Crim ( University of Texas at San Antonio, Texas)
- ◆ Blanche Desjean-Perrotta ( University of Texas at San Antonio, Texas)
- ◆ Christine Moseley ( University of Texas at San Antonio, Texas)

內容：

1. 目前師資準備課程所面臨的挑戰：因應氣候變遷、溫室效應的改變，美國學校也正視到必須提供老師更多關於環境教育的課程，因此如何訓練教師設計多樣式的環境教育課程、培養教師對於環境的認知與執行為當務之急。
2. 許多老師不但在參與當地自然環境的經驗少，而且也缺乏有效益的知識與技能去教導學童關於環境的課程，所以如何培養與加強幼教老師環教的認知與擁有高程度的環境文獻知識為目前主要課題。

3. 在 AAE 國家標準為基礎的國際性環境教育課程：這是一整天的訓練課程，可以有效的增加老師們對於環境教育的知識與態度的，提供教師以野外生活為基礎的環境保護與環境教育知識，以培養出他們對於野外環境與相關的自然資源的有責任感與行動，進而協助他們去發展對於環境的知覺、認知、技能與承諾。
4. 課程研習會：這是為期 4 天的課程，地點在 San Antonio' s Parks and Recreation epartment(德州聖安東尼的公園與娛樂休閒部門)所管理的五個自然地區的其中一個地區進行，老師們到戶外去教學與學習，互相分享環境教育資源，以新穎活潑、互動式的教學方法，採用有效益的環境教育策略，訓練他們對自然資源的新認知，發展出對於周圍自然地區的瞭解與欣賞，結合環境教育與自然資源地區的瞭解，進而能夠用實際運用於課堂上。

5. 教師參與後的感想：這個訓練課程包括許多影響自然環境的多元化因素，多數教師表示很高興能夠到戶外與其他人一起學習，瞭解大自然，藉由與其他人互相合作所得到的知識能量，學習的慾望與動機業就愈增強，可以使用這個自然資源地區當做教導孩童的大自然教室。

### 主題六：大自然的托兒所

報告者：Susan Snyder (Ogden Nature Center)

內容：

1. 如何設計一個好的托兒所課程，課程設計必須包括下列幾大項：

- ◆ 社交上的/ 情緒上的：可以使用歌唱、手指遊戲、幼兒瑜珈等等。
- ◆ 認知上的：可以教導幼兒認識掠奪者(肉食動物)與犧牲品(小昆蟲)的關係，如認識蝙蝠、小鳥，什麼是好的幼昆蟲；認識地球、行星等。



- ◆ 語言上的:可以教導對於字彙的認識，如說故事、溝通技巧、傾聽的能力等。(可以使用布偶 玩偶來進行此部份的教學活動)
- ◆ 肢體上的：可以教導精細的活動技巧，如做勞作、塗抹顏色及教導簡單的活動技巧，如玩遊戲、戶外散步。
- ◆ 評價：在課堂上對於老師進行意見調查及在團體活動中問幼兒他們的感覺與想法。

2. 實例:分組設計如何教導幼兒認識樹木，讓他們從遊戲中體認到樹和人類的密切關係，引導他們欣賞、愛護大自然環境，幫助他們養成愛護樹木的良好行為和習慣，進而進行可持續發展的幼兒啟蒙教育。



(分組參與設計幼兒認識大樹活動)



(與Susan Snyder講者合影)

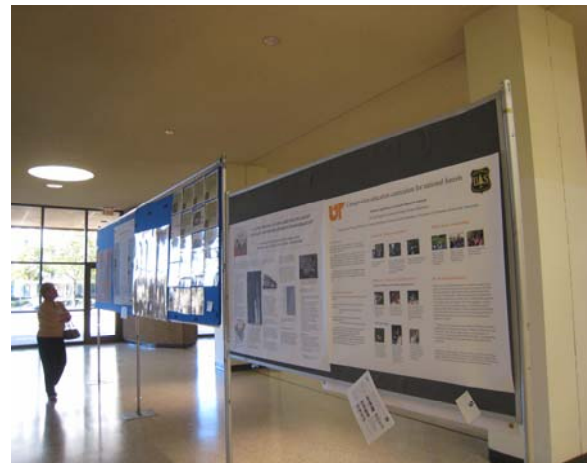


(與陪同媽媽參加會議男童母子合影)

## 主題七：海報資料展示區及作者的角落（如附照片）







## 肆、心得與建議：

### 一、 幼兒環境教育的重要

- (一) 此次年會中值得一提的是一位女性環境教育工作者，帶著她年約 4 歲的兒子一起參加研討會，很巧有幾場研討會與他們一起，只見在會議進行中小男孩不吵也不鬧就乖乖坐在位子上，玩著媽媽幫她準備的玩具、電腦遊戲，他自備一項玩具是「獨角仙的蛻變過程」，從卵、孵化到成蟲的玩具模型，小男孩可以很正確跟我們解釋、分辨出來牠的蛻變程序，讓與會大家對他豐富的自然保育觀念感到佩服。
- (二) 幼兒教育與學習環境息息相關，如同小男孩因為跟著媽媽耳濡目染接觸大自然環境，在這種環境長期薰陶下自然而然對大自然奧妙感到興趣。幼兒的可塑性最大，因此應儘早培養幼兒環境保護觀念，塑造正確良好的生活習慣與公共道德。
- (三) 在聽了「幼教老師如何去教導孩童學習大自然世界」及「大自然的托兒所」課程後，更體認到幼兒的學習環境上幼教老師扮演了很重要的角色，因此如何訓練

幼教老師在學術和專業上做充分準備，進而教導幼兒從日常生活中培養他們關懷自然、珍惜資源的意識，實為目前推動台灣幼兒環境教育首要課題。

- (四) 本署為鼓勵民間出版優良環境教育叢書，以傳播正確環境教育理念，並鼓勵學生、家長及老師運用優良環境教育叢書進行閱讀與教學時，有更充分的資源，已舉辦3屆「小綠芽獎」甄選，每本獲獎書籍都由專家學者設計成活動教案，內容生動、活潑、有趣，並分送全國幼稚園、國中、小學暨及民眾索閱。此次聆聽「大自然得托兒所」課程，在分組設計「如何教導幼兒認識樹木」遊戲中，與第一屆小綠芽獲獎圖畫書「誰來敲門」教案「樹之歌」有異曲同工之妙，傳遞的訊息是讓幼兒了解樹對人類的貢獻，再運用感官體驗活動去觀察樹的構造，認識樹的面貌，和樹做朋友，讓幼兒親近樹，建立對樹的情感，進而尊重樹的生命、愛護樹木，體悟樹木與人類的密切關係。

## 二、國中小學冬、夏令營應多設計環境保護相關活動

(一)「在 Kansas 郊區三至八年級學童的環境教育夏令營」設計活動內容除了爬山、釣魚、獨木舟一般休閒活動外也加入認識水源及池塘青蛙溪流的實地調查、廢水處理、參觀廢棄物掩埋場等環境保護相關活動，讓學生在活動中體認到環境保護的重要。而國內的學童夏令營多由民間單位辦理，活動內容不外乎美語課程、戶外遊戲（打球、游泳、遊樂場）等，如果能於寒暑假由學校結合民間機構，辦理冬季、夏季夏令營活動，盡量利用學校周邊環境，設計環境保護相關課程融入活動中，將自然體驗及學習活動結合在一起，讓學生在活動中充分運用各種感官，去看、去聽、去聞嗅、去觸覺，進而體驗自然之美，以培養學生從小關懷自然、珍惜資源的環保觀念，引導學生積極參與學習過程，消化、評估和運用學到的事物，並培養進行獨立、終生學習及發展的技巧。

(二) 教育部最近已研議完成「公立國民小學及國民中學委託私人辦理條例」草案，未來將透過「公辦民營」方式，引進民間創意與資金，使教育更活潑、多元，此種類似美國的「(charter school) 契約學校」，如送院核定後希望以低收費、高品質經營方式，讓教師透過更彈性、多樣的教學課程，屆時希望學校能融入更多創意教學設計，教導學生著重實際觀察、動手探索，將生活與生態環境相結合。

### 三、加強教師環境教育訓練與課程設計：

(一) 現階段孩童逐漸減少到戶外與大自然互動的機會，反而藉由更多的時間與傳播媒體互動來學習有關大自然的知識，長期下來孩子普遍缺乏美感的基本素養，相對的也欠缺意志力磨練的機會。這些問題反映出我們必須重新檢視應該要如何訓練教師去加強學校環境教育課程設計，而美國學校結合當地相關團體，針對當地區的自然生態與地理環境設計出一套有系統的教學方案，幫助該地區的學生由認識自己的生長環境中去了解、愛



護、保護我們的自然資源的教育訓練課程，對於老師教學非常有幫助，值得參採。

(二) 日本與美國均規劃執行對教師的環境教育訓練課程，同樣的本署為將環境教育理念融入教學，歷年來已辦理「國民中小學環境教育課程指導手冊」、「國民小學高年級永續發展教學模組及教材」、「環境創意教學執行計畫徵選」及「環境創意教學工作坊」等，以加強教師的環境教學能力，進而引導學生對環境與永續發展理念和內涵的正確認知，體認自身環境可貴，並產生積極的環保行動。

二、隨著人類經濟快速發展，排放大量溫室氣體，造成全球暖化與氣候變遷的效應，日益明顯，已經是當今國際上最為關注的重大議題，在本署「節能減碳無悔措施全民行動方案」十大宣言中推動「愛用當地食材；每週一天或一日一餐蔬食；吃多少點多少，減少碳排量」與所參加研討會主題「探討每日飲食對於環境的衝擊」所談內容一致，可見如何力行節能減碳已成為國際間的新的時尚與文化。

伍：附件（大會手冊，如後附）





**EE on the PRAIRIE**  
*Pioneering New Strategies*

## *NAAEE's 37th Annual Conference*

OCTOBER 15-18, 2008 | WICHITA, KANSAS  
 5th ANNUAL RESEARCH SYMPOSIUM | OCTOBER 14-15



Promoting excellence in environmental education.



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Planting Roots



for Rainbows

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Outdoor Classroom

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## Welcome to NAAEE's 37<sup>th</sup> Annual Conference

Dear Attendees:

Thank you for coming to our 37th annual conference!

Each year, we offer new features and networking galore with many old friends and new professional contacts. For those of you who are returning—many of you many times over—we would like to ask you to help every new person feel welcome. Our recent phone survey found—no surprise here—that the most valued piece of our association is networking.

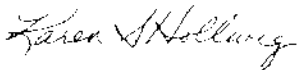
As our conference continues to grow, we want to make sure that everyone feels welcome—that we are as inclusive as we possibly can be. Please seek out new attendees and help them feel comfortable. Kansas is a very friendly place, and we have incredible volunteers who have made this conference possible.

Our conference offers an amazing array of field trips, presentations, and fun for everyone who attends—but that enormous set of choices can be overwhelming to our new attendees. We have eight strands to help you organize your selections, but you don't have to follow a strand. Just partake of the sessions that are of most interest.

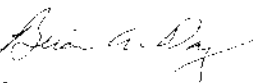
You'll find much to intrigue you: advocacy efforts, research activities, and outreach to new partners and new communities. This year we're trying something really different—partnering with the Bioneers conferences to bring their keynote presentations from across the country via satellite.

Please get involved, attend our committee and commission (interest groups) meetings, our business meeting (Saturday morning), and help every new person feel a part of this tremendous gathering of the "EE family."

Thank you for helping us grow as an organization by attending this conference and carrying our mission back to your community. We're so glad you're here!



Karen Hollweg  
President



Brian A. Day  
Executive Director

## From the Conference Co-Chairs

Dear Conference Participants:

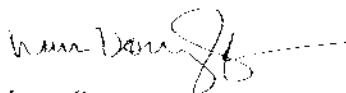
Welcome to Kansas and the 2008 NAAEE Conference! We are very excited to have you here in the Sunflower State and are looking forward to showing you the natural beauty and progressive ideas of Kansas. We've rounded up more than 100 volunteers, and for nearly a year we have been readying ourselves for your visit. Every person and organization involved has worked with great excitement in anticipation of your arrival!

During your time at the conference, you will have the opportunity to see the subtle landscape of the tallgrass prairie, experience time "underground" in an active salt mine, help build an outdoor classroom at a cutting-edge nature-based preschool, and check on the progress of Greensburg, which is rebuilding as a sustainable town after undergoing an EF-5 tornado barely 18 months ago. You also will be able to experience the arts of Kansas through innovative puppet theatre and artwork in the Exhibit Hall, and hands-on science along the river at Exploration Place. Our hotels and conference facilities have "greened up" to make your time in Kansas as sustainable as possible by implementing recycling programs and working with local farmers to provide delicious food.

We invite you to enjoy the environmental education presentations and activities the conference offers, and leave some time to enjoy the local foods and beverages, arts and natural resources, and innovative programs of a Kansas you may not have expected!



Shari L. Wilson  
Kansas Association for Conservation and Environmental Education



Laura Downey  
Kansas Association for Conservation and Environmental Education

# welcome to Wichita!

## Choices Make Wichita a Great Place To Live, Work, Play

As the largest city in Kansas, we offer a myriad of choices. Wichita has entertainment and cultural attractions, shopping, and dining options that rival other metropolitan areas of its size.

While you're here, be sure to visit the 44-foot-tall "Keeper of the Plains," standing at the confluence of the Big and Little Arkansas Rivers, which pays tribute to the Native Americans who inhabited the region before the arrival of settlers. There are 35 museums where you can learn all aspects of our city. Experience modern, hands-on science and national traveling exhibits at Exploration Place. Learn how Wichita evolved into the "Air Capital of the World" at the Kansas Aviation Museum.

The Old Town district undergoes a metamorphosis from day jobs to the centerpiece of our city's nightlife with a variety of music to please all souls—rock, jazz, country, blues, and reggae—within easy walking distances. Area shopping choices will please the sophisticate and the antique hunter.

Visiting Wichita won't break the bank. The city topped "Forbes Magazine On-line's" list of most affordable cities in the Midwest. It ranked No. 3 on AAA's list of most affordable cities to visit in the United States, helped by the lowest gasoline prices in the country.

For more information, go online to [VisitWichita.com](http://VisitWichita.com) or call 316-265-2800.

We're glad you're here!

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## More Kids in the Woods!

*Forest Service Chief Gail Kimbell*

What is our nation's most important resource? It isn't forests, important as they are. It isn't even water, although our very life depends on it. It is our nation's children—the next generation of resource users, conservationists, and conservation voters. Without their understanding and active support, resources such as forests and water could be vastly diminished for future generations.

It is up to our generation to prepare the next to assume the awesome responsibility of stewardship for America's natural resources. Each and every one of us has a responsibility to help open the eyes of children—our own kids and those of others—to the wonder and beauty of nature, to enrich their lives, and to inspire in them a land ethic that they, in turn, will pass on to future generations.



*Gail Kimbell*

The need is urgent because the stakes are high. The climate is changing in unprecedented ways, with consequences that could be disastrous. A changing climate casts doubt on the future reliability of our water resources, yet our population continues to soar. Even relatively well-watered regions such as the South are now straining to meet conflicting demands for water.

Forests will be key. Gifford Pinchot once said that the connection between forests and rivers was like that between father and son: No forests, no rivers. We must act, and act now, to help forests adapt to the inevitable changes. But no matter what we do, change will continue far into the future. Future generations must be prepared to cope with climate change, demographic change, and changes in the amount, quality, and distribution of water on the land.

Yet there are worrisome signs that the next generation will not be prepared. On average each day, kids from ages 8 to 18 spend almost 6½ hours in activities involving electronic media, including 3 hours of TV; by contrast, they spend about 30 minutes in unstructured outdoor activities. Kids today have fewer opportunities to get outdoors, to explore surrounding forests and fields, to get up close and personal with nature. Where, then, will they find the caring and understanding they will need to become good stewards of the land?

The Forest Service has a long and proud tradition of reaching out to Americans on behalf of conservation. From Smokey Bear, to NatureWatch, to Project Learning Tree, the Forest Service has worked across programs and disciplines to integrate conservation education into much of what we do. But we must do more. If we are to meet the conservation challenges of the 21<sup>st</sup> century, then we must work with partners to spread environmental literacy across America, focusing first and foremost on kids. Through a new strategy for "More Kids in the Woods," the Forest Service is contributing to a growing national movement to bring kids to nature—and nature to kids.

Our children need the same opportunities we had to roam in forests and fields, to fish and find frogs, to watch and wonder about birds and other wildlife. Aldo Leopold once said, "Once you learn to read the land, I have no fear of what you will do to it, or with it. And I know many pleasant things it will do to you." Getting kids into the woods is a necessary first step, and all of us can help make it happen, whether through our professional work or in our personal lives.

# welcome from the mayor



Mayor Carl Brewer



On behalf of the 365,000 citizens of Wichita and the Wichita City Council, I extend warm greetings from the *Air Capital of the World*. It is a pleasure to welcome the 37<sup>th</sup> Annual North American Association for Environmental Education (NAAEE) Conference.

Thank you for selecting Wichita as the site of your gathering and for giving me the opportunity to welcome you. The City of Wichita recognizes the positive impact that environmental education provides for the protection of our quality of life as citizens. We applaud your efforts to bring awareness to environmental issues that affect our climate and much more.

While attending your conference, take time to enjoy the wonderful attractions of Wichita, such as The Keeper of the Plains, Exploration Place, Old Cowtown featuring the Diamond W Wranglers cowboy band, and Old Town, which features retail stores, restaurants, luxury theatres (Old Town Warren), and residential living. Also, don't forget to visit our world class zoo, one of the state's largest tourist attractions.

Again, it is my pleasure to welcome you to Wichita – a great place to visit, live, work, and play.

Sincerely,

A handwritten signature in cursive script that reads 'Carl Brewer'.

Carl Brewer  
Mayor

Office of the Mayor

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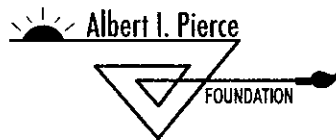
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# conference overview

## and bus schedule

### Tuesday, October 14

8:00 AM – 5:00 PM	<b>NAAEE Board Meeting</b>
8:30 AM – 5:30 PM	<b>Field Experiences</b>
9:00 AM – 5:00 PM	<b>Research Symposium</b>
5:00 PM – 6:30 PM	<b>Registration Office Open</b>
5:30 PM – 7:00 PM	<b>Research Symposium Reception</b>

See more information on Tuesday-Wednesday Day at a Glance, page 30

### Wednesday, October 15

7:00 AM – 6:00 PM	<b>Registration Office Open</b>
8:30 AM – 5:00 PM	<b>NAAEE Board Meeting</b>
8:30 AM – 4:00 PM	<b>Workshops</b>
9:00 AM – 5:00 PM	<b>Research Symposium</b>
5:30 PM – 7:00 PM	<b>Various Receptions</b>
7:00 PM – 10:00 PM	<b>Opening Keynote (Dan Barstow) and Performance (Josh White, Jr.)</b>

See more information on Tuesday-Wednesday Day at a Glance, page 30

### Thursday, October 16

7:00 AM – 11:30 AM	<b>Registration Office Open</b>
7:30 AM – 8:15 AM	<b>CCC Chairs Breakfast</b>
8:30 AM – 11:15 AM	<b>Concurrent Sessions</b>
11:45 AM – 1:45 PM	<b>Lunch served during <i>Creating Equitable Climate Change Solutions through Artistic Expressions Panel</i></b>
1:30 PM – 5:00 PM	<b>Registration Office Open</b>
2:00 PM – 4:45 PM	<b>Concurrent Sessions</b>
5:00 PM – 6:00 PM	<b>Keynote (Gail Kimbell)</b>
3:30 PM – 8:30 PM	<b>Exhibit Hall Open</b>
6:30 PM – 8:30 PM	<b>Exhibit Hall Opening (with Poster Sessions and Affiliate Welcome)</b>

See more information on Thursday Day at a Glance, page 32

### Friday, October 17

7:00 AM – 11:30 AM	<b>Registration Office Open</b>
7:00 AM – 8:00 AM	<b>CCC Meetings</b>
8:30 AM – 11:15 AM	<b>Concurrent Sessions</b>
9:00 AM – 3:00 PM	<b>Exhibit Hall Open</b>
11:30 AM – 1:30 PM	<b>Authors' Corner</b>
1:30 PM – 5:00 PM	<b>Registration Office Open</b>
1:45 PM – 3:30 PM	<b>Concurrent Sessions</b>
4:45 PM – 5:00 PM	<b>Albert I. Pierce Foundation Arts Awards</b>
5:00 PM – 6:00 PM	<b>Keynote (Simran Sethi)</b>
7:00 PM – 10:00 PM	<b>Stapp Scholarship Auction and Dinner</b>

See more information on Friday Day at a Glance, page 52

### Saturday, October 18

7:00 AM – 11:00 AM	<b>Registration Office Open</b>
7:30 AM – 8:30 AM	<b>CCC Meetings</b>
7:30 AM – 9:30 AM	<b>Share Fair</b>
8:45 AM – 9:15 AM	<b>NAAEE Business Meeting</b>
9:30 AM – 11:15 AM	<b>Concurrent Sessions</b>
11:30 AM – 1:30 PM	<b>Awards Ceremony, Luncheon, and Keynote (Jerome Ringo)</b>
1:45 PM – 3:30 PM	<b>Concurrent Sessions</b>
2:30 PM – 5:00 PM	<b>Registration Office Open</b>
3:30 PM – 5:30 PM	<b>CCC Meetings</b>
5:30 PM	<b>President's Reception</b>
7:30 PM – 10:00 PM	<b>Networking Celebration and Variety Show</b>

See more information on Saturday Day at a Glance, page 64

### Sunday, October 19

VARIOUS TIMES	<b>Field Experiences</b>
---------------	--------------------------

See descriptions on page 74

### TEALL/OLD TOWN BUS ROUTE

The NAAEE conference bus will circulate between the Teall Hotel, Courtyard Wichita at Old Town, the Teall Hotel, Hyatt Regency Wichita, and the Convention Center. The complete cycle should take approximately 20-30 minutes. Catch this bus from the east side of the connecting lobby.

Buses run during the following times:

**WEDNESDAY: 7:00 AM to 10:00 PM**

**THURSDAY: 7:00 AM to 10:00 PM**

**FRIDAY: 7:00 AM to 6:30 PM, then from Teall Theatre to Exploration Place, stopping on the way back at each location at the end of the Exploration Place event.**

**SATURDAY: 7:00 AM to 10:30 PM**

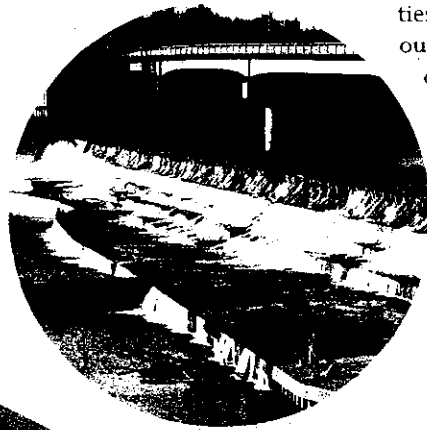
# walking the talk

We are so proud to be putting on an “extreme green” conference for you! We’ve had an enthusiastic response from the Hyatt Regency Wichita (HRW) and the City of Wichita to our suggestions for ways to make the facilities meet our “green” standards and hope that both will continue their green efforts after the conference.

## Recycling

Century II is working on its permanent recycling plan; however, they just completed a convention in late June where they tried various recycling practices. They used Clear Stream containers (on loan through the Kansas Department of Health and Environment) throughout the facility for plastic, aluminum, and mixed paper. Weyerhaeuser, Century II’s current recycling company, is working with the convention center to haul the recyclables. Cardboard is recycled through a partnership with the Hyatt Regency Wichita. Century II is planning to use the Clear Stream containers, or something similar, during the NAAEE conference. These will be placed throughout Exhibition Hall and the meeting room areas.

The Auction Committee and Sustainability Committee have teamed up to provide you with an evening of fun and dinner on compostable tableware. Plates, cups, and cutlery will be picked up and taken to Botanica to go back to Mother Nature.



## SATELLITE PRESENTATIONS

NAAEE is partnering with Bioneers in California to simulcast a number of their speakers, offering participants additional sessions without the cost or energy consumption to travel to that event. See page 51 for list of presentations on Friday and Saturday in Redbud C. Times are listed throughout session descriptions.

## Locally-grown Food

A year in advance of the conference, we began conversations with local farmers about our event and what crops they could harvest in time for our conference. The local Kansas Grown Farmers’ Market and the Hyatt chefs have partnered to develop menus that feature local meats and produce, reducing the energy to transport food for our event.

## Analyzing Our Ecological Footprint

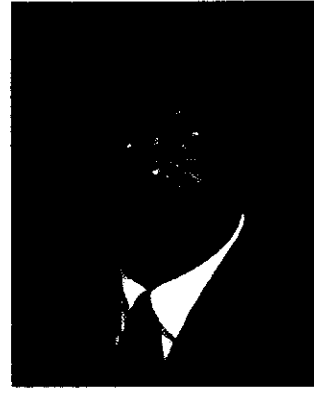
Students of Earth Force, a non-profit organization that promotes service-learning as an educational tool to encourage young people to become involved in their communities and protect the environment, will assess the ecological footprint of the conference. They also will also make recommendations to the Conference Planning Committee about how they can decrease the environmental impact of future conferences. This project is a demonstration of the ongoing partnership between Earth Force and Staples designed to engage young people as active environmental champions.

## Energy Offsets

Your conference registration fee includes \$5.00 that will go to offset the carbon emissions generated by conference activities. Carbon offsets will be purchased as green tags through our partner Zephyr Energy, which is the Midwestern program of the 501 (c)3 Bonneville Environmental Foundation (BEF). *Green Tags* replace traditional polluting sources of electricity with sustainable, renewable sources of energy from solar and wind power. Revenues generated from BEF’s sales of Green Tags directly support additional new watershed restoration and renewable energy projects such as the national Solar4RSchools program.



# keynote speakers



**Wednesday, October 15**

7:30 PM – 8:30 PM

MJ Teall Theatre

**Daniel Barstow**

*Chair of the Center for Earth and Space Science Education and national chair of the Climate Literacy Network*

**Climate Change:  
A Challenge and  
an Opportunity for  
the EE Community**

The consensus among scientists is unequivocal: human behavior, especially our emission of greenhouse gases, is changing the global climate. Education, in schools and the community at large, is central to any hopes we have to understanding, responding to and solving this global crisis. Barstow will present an overview of the global climate challenge and some suggestions for how the environmental education community can help us constructively address this critical issue.

**Thursday, October 16**

5:00 PM – 6:00 PM

Convention Hall

**Gail Kimbell**

*Chief of the US Forest Service*

**Reconnecting Kids  
to Nature**

Today's children have gravitated away from outdoor experiences, towards a virtual indoor reality. This disconnect from nature has serious long-term implications for their health and well-being and the future stewardship of our natural landscapes. Young people who grow up without a connection to nature may lack the knowledge, skills, or inspiration to seek careers in natural resources and land management, or an awareness of the critical, life-supporting services that nature provides. Chief Kimbell will discuss the Forest Service's long and proud tradition of connecting people to nature, and some of the conservation education programs that engage children of all ages in nature-based activities to enrich their lives, promote health, and develop the next generation of land stewards. See article by Chief Kimbell on page 4

**Friday, October 17**

5:00 PM – 6:00 PM

MJ Teall Theatre

**Simran Sethi**

*Freelance Environmental Journalist • Co-Host/Writer of the Sundance Channel program "The Green" • Professional in Residence, University of Kansas School of Journalism*

**Environmental Education,  
Action, and Transformation**

We are not separate from our ecosystem. Environmental journalist, advocate, and University of Kansas School of Journalism Professional Chair Simran Sethi discusses impactful ways to bring the outside in and make environmental issues accessible, engaging, and actionable for students. Sethi is committed to expanding the definition of green and redefining the label "environmentalist." Her insight on environmental pedagogy, climate communications, and environmental justice is informed by her commitment to social issues and vast experience in broadcast, radio, and online media. Additional information can be found on her Web site: [www.simransethi.com](http://www.simransethi.com)

**Saturday, October 18**

12:45 PM – 1:30 PM

Convention Hall

**Jerome Ringo**

*President, Apollo Alliance*

**The Color of Green—  
The Other "Inconvenient  
Truth"**

From the grass roots to the White House, the discussion of energy independence and economic stimulation dominates most debate and conversation. The participation of all Americans in resolving these issues points to possibly the only solution. Whether through our voices or changing our habits, we all must take part in preserving the planet for future generations. Establishing a coalition to address these issues that will reflect the diversity of America is most critical, as well as engaging those constituencies that have not been involved. The Color of Green addresses the challenges faced by Americans and the world, and possible solutions to these ever growing problems. Before we can resolve these issues, we must recognize the magnitude of the problem, and deal with many other "Inconvenient Truths."



# plenary panel

Thursday, October 16 | 11:45 AM – 1:45 PM

## Creating Equitable Climate Change Solutions through Artistic Expressions

Lunch will be served during the panel presentation.

Experience different forms of artistic expression as they bring to life the human dimensions and costs of climate change. Through the lens of environmental justice, we will come to understand that “silence is not uncaring”; that the environmental worldview of people of color and the poor may differ from more traditional conservation and preservation efforts. These visual, oral, and aural presentations will explore issues such as:

- the sense of ownership of the environment and public lands,
- environmental issues as issues of day-to-day survival, and
- the importance of matriarchy in environmental education.

Thanks to the Environmental Justice Commission and the Albert I. Pierce Foundation for their support for this plenary session.



Dudley Edmondson



Josh White, Jr



Richard Mabion



Marcia Allen Owens

### PANELISTS:

- **DUDLEY EDMONDSON**, photographer/author/conservationist
- **JOSH WHITE, JR.**, artist, actor, teacher, and social activist
- **RICHARD MABION**, community activist in the green collar jobs movement

### MODERATOR:

**MARCIA ALLEN OWENS**, FAMU Environmental Sciences Institute and NAAEE Board member

*Conference program cover photo by Dudley Edmondson*

## The National Association for Interpretation offers books, training, and networking



**Personal Interpretation**  
by Lisa Brochu and  
Tim Merriman  
(updated 2nd edition)



**Applied Interpretation**  
by Doug Knapp



**Interpretive Writing**  
by Alan Leftridge



**Interpretive Planning**  
by Lisa Brochu



**The Nature Center Book**  
by Brent Evans and  
Carolyn Chipman Evans

Order online at [www.interpnet.com/store](http://www.interpnet.com/store) or call 888-900-8283.

Coming soon, NAI's newest book: **Interpretation by Design: Graphic Design Basics for Interpreters**



**NAI National Workshop**

**NAI Leadership**

May 6–10, 2009

[www.interpnet.com/ic](http://www.interpnet.com/ic)

Learn and learn from interpretation  
professionals from more than 30 nations.

# staking your claim

## student and young professional events

Interested in being a pioneer in the field of EE? Explore avenues for making your voice heard and stake your claim in the field. Meet innovators that have created their own niche in the field of EE, and learn strategies for creating your own. Socialize with fellow students and young professionals who will travel alongside as you blaze new trails together. Make your conference experience more relevant by connecting with your peers at our hands-on session, roundtable discussions, and social events in Wichita.

Check out job postings and/or post your resume on the Job Board near the registration area.

### Welcome Reception

Want to meet your trail companions? Stop by the Commission Reception to meet with other students and young professionals attending the conference and get information on our events.

**Thursday, October 16 | 8:30 AM - 11:15 AM | Grand Eagle Ballroom F**

### Staking Your Claim: Finding a Place in the Field

Having difficulty finding your way? It is time to stake your claim! Learn strategies to identify your niche and work together to plot a course forward. Our experienced planners will help you design plans that you can implement when you return home.



**Thursday, October 16 | 9:00 PM | Hyatt's Southwinds Bar and Grill**

### Gather Round the Watering Hole: Informal Social

Join us at the hotel tavern as we swap stories with fellow students and young professionals.

**Friday, October 17 | 1:45 PM - 3:30 PM | Grand Eagle Ballroom G**

### Staking Your Claim: Visiting Pioneers in the Field

Looking for a trail guide? Come get inspired by pioneers in the field and learn how they found their place in environmental education. As you explore new paths, get your questions answered by experienced trail blazers, up close and in person!

**Saturday, October 18 | 1:45 PM - 2:30 PM | Grand Eagle Ballroom C**

### Staking Your Claim: Rounding Up 2008 and Trailblazing for 2009

Round up your conference by reconnecting with other students and young professionals. Reflect on your experience, provide feedback, and help plan for 2009 at our final event of the conference.

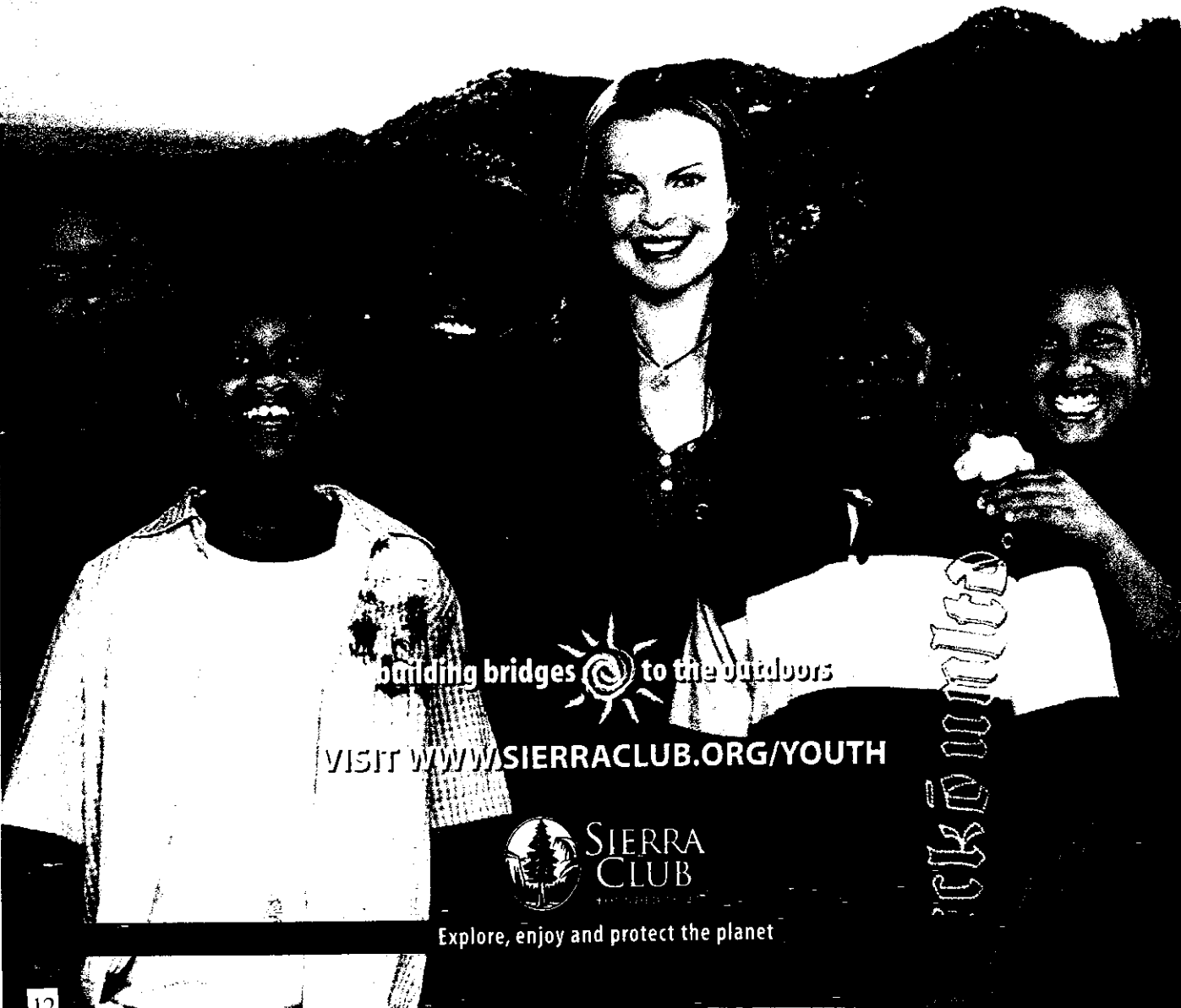




# MAKE A MEMORY. MOLD A LIFE. GET OUTSIDE TOGETHER.

The time I spent outside as a kid taught me to love nature and to appreciate the world around me. Now that I am a mother, I appreciate even more the importance of getting children outdoors. In today's world, between television, video games, busy schedules and more time in the car commuting, kids aren't spending as much time outside. But being outdoors makes children happier, healthier, even smarter. In fact, a study from the University of Wisconsin found that an outdoor education program actually raised their IQ.

Take your children outdoors today.



Building bridges to the outdoors

VISIT [WWW.SIERRACLUB.ORG/YOUTH](http://WWW.SIERRACLUB.ORG/YOUTH)



Explore, enjoy and protect the planet



Dear NAAEE Members,

The Sierra Club's Building Bridges to the Outdoors project is proud to be a sponsor of the 37th annual North American Association of Environmental Education conference, "EE on the Prairie: Pioneering New Strategies." This is the fourth consecutive year that the Sierra Club has sponsored the NAAEE National Conference.

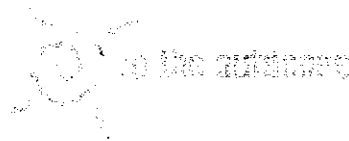
The Sierra Club is dedicated to giving all children in the United States an opportunity to directly experience nature. It is through education, exploration, and enjoyment of the outdoors that young people develop the foundation needed to respect and protect the planet later in life. Outdoor environmental educators provide youth with critical experiences that not only lead to the development of environmental ethics, but also result in academic, behavioral, and health improvements for children from all walks of life.

The Sierra Club recognizes that there are many barriers to getting kids outside. Fears about safety, sprawl that fails to incorporate sidewalks, bike paths, and nearby play areas, and electronic media all contribute to sedentary and indoor lifestyles. With the deck stacked against them, kids depend more than ever on environmental educators, like those represented here this week, to provide them with valuable nature experiences.

Through our Building Bridges to the Outdoors (BBTO) project, Sierra Club is on the trail to realizing its vision to provide every child in America with an outdoor experience. Underserved youth, including low-income and minority communities, are not only disproportionately impacted by environmental degradation, but they face some of the strongest obstacles to getting out and into nature. That is why BBTO is working closely with a diverse set of partners throughout the country, empowering local communities to ensure their children are not left inside.

With a plethora of environmental challenges lying in wait at our children's doorsteps, it is critical that we provide youth with all the tools they will need to solve them. Time spent outdoors is requisite to developing an interest in environmental fields which will allow today's youth to participate in tomorrow's green economy and solve some of our most dire environmental crises in the process. But even more important, our children are missing out on the less tangible benefits of unstructured free nature play that earlier generations took for granted. We must work together to ensure that all children have the chance to enjoy and explore the great outdoors and have their own special place in nature.

Sincerely,



**Martin LeBlanc**, *National Youth Education Director*

**Michael Casaus**, *New Mexico Youth Representative*


**Tiffany Saleh**, *California Youth Representative*

**Jackie Ostfeld**, *National Youth Representative*

**Bill Vanderberg**, *BBTO Lead Volunteer Coordinator*

**Juan Martinez**, *BBTO Volunteer Youth Coordinator*

# EETAP project sessions


This icon  identifies workshops and sessions related to NAAEE's Quality Assurance Initiative. Through the Environmental Education and Training Partnership (EETAP), NAAEE has developed these projects that will strengthen and expand the EE profession.

## Capacity Building for Affiliates

**Workshop**—Preregistration Required

Wednesday, October 15 | 8:30 AM – 4:00 PM | Redbud B


### Affiliates Workshop

 **COORDINATORS:** Stephanie Lefevre and Jonathan Mueller, Nevada Natural Resource Education Council

## EE Certification

Thursday, October 16 | 9:30 AM – 11:15 AM | Osage


### Developing an EE Certification Program for Your State, Region, or Province

 **PRESENTERS:** Tom Marcinkowski, Andreé Walker Bravo, Brenda Weiser, Libby Wilcox

*We will focus on the basic steps regarding EE Certification including why a program is important to the profession, who should be certified, and how to get started.*

Thursday, October 16 | 9:30 AM – 11:15 AM | Grand Eagle Ballroom A


### Communications Part 1: Developing Your Strategic Communications Plan

 **PRESENTERS:** Garry Enns, Chair, NAAEE Communications Committee; Jane Eller, Sue Bumpous, Linda Rhoads, Donny Roush

*Learn why a strategic communications plan is important, how to get started, and how to develop and implement a communication plan that helps your organization reach its goals. How does being an environmental organization impact your communication? (Of particular value to organizations that need to develop a communications plan as part of their application for accreditation of their EE Certification program.)*

Thursday, October 16 | 3:00 PM – 4:45 PM | Grand Eagle Ballroom A

### Communications Part 2: Creating Effective Internal and External Communications Programs

 **PRESENTERS:** Garry Enns, chair, NAAEE Communications Committee; Eric Proctor, Paul Nowak, Mary Ocwieja, and Sue Bumpous (NAAEE)

*Building on the results of "Communications Part 1" use your plan to begin developing specific activities that ensure effective communications with both internal and external audiences, through group work, discussion, and idea sharing.*

Thursday, October 16 | 3:00 PM – 4:45 PM | Grand Eagle Ballroom G

### Professional Certification: Affiliate-Higher Education Partnership Model


**PRESENTERS:** Linda Rhoads and Alison Heimowitz, EE Association of Oregon

*Does your state want to implement a certification program? This*

*session will share an affiliate-higher education partnership model funded by the National Science Foundation. Come learn how your state can position itself to implement this model.*

Friday, October 17 | 9:30 AM – 11:15 AM | Grand Eagle Ballroom A


### Developing a Financial Plan for an EE Certification Program

 **PRESENTERS:** Alison Heimowitz, Linda Rhoads, and J. Allen Johnson

*Take home on a CD everything needed to develop a financial plan for your state's EE certification program. Information will include a financial plan framework, budget templates, and fund development strategies. Bring your organization's budget to participate in this hands-on session.*

Friday, October 17 | 1:45 PM – 3:30 PM | Grand Eagle Ballroom A


### Assessment and Evaluation of EE Certification Programs

 **PRESENTER:** Tom Marcinkowski

*Are you curious about or even frustrated by the roles that assessment and evaluation play in your EE Certification program? Then this session is for you. We'll explore practical aspects of each in response to questions including why, what, when, who, and how.*


Saturday, October 18 | 7:30 AM – 8:30 AM | Chisholm

### Certification Advisory Council and ARP Meeting

 **CHAIR:** Brenda Weiser

Saturday, October 17 | 9:30 AM – 11:15 AM | Grand Eagle Ballroom A

### How to Get Your Local EE Certification Program Accredited by NAAEE

 **PRESENTERS:** Tom Marcinkowski, Andreé Walker Bravo, Brenda Weiser


*Have an EE Certification program? Interested in being Accredited by NAAEE, but wonder how? This session will address those questions and others relating to NAAEE's new accreditation process.*

## EE Resource Reviews

**Workshop**—Preregistration Required


Wednesday, October 15 | 8:30 AM – 4:00 PM | Redbud A

### Be the Best! What EE Resource Reviews Can Do for You

 **PRESENTER:** Lori Mann, Chair, Resource Reviews Advisory Council


Thursday, October 16 | 9:30 AM – 10:15 AM | Oak

### Create and Find Great Stuff through EE Resource Reviews

 **PRESENTER:** Lori Mann and Ali Sweeney  
*The EE Resource Reviews program can help you find or develop environmental education resources that best reflect the Environmental Education Materials: Guidelines for Excellence. Learn how to submit resources for review and how to use the online directory of resources.*

Friday, October 17 | 10:30 AM – 11:15 AM | Cedar

### Excellence and EE: Affiliate Program to Review EE Resources

 PRESENTERS: Lori Mann, Amy Pike, Ali Goulstone-Sweeney, André Walker Bravo  
*NAAEE and the Affiliate Network created a unique system to review EE materials. Learn how Colorado, Utah, and Idaho are using this system to prove and improve the quality of EE resources AND how offering reviews can benefit your state/province.*

Saturday, October 18 | 3:30 AM – 5:30 PM | Grand Eagle Ballroom C

### Resource Reviews Advisory Council Meeting


CHAIR: Lori Mann

## Guidelines for Excellence Initiative

**Workshop**—Preregistration Required


Wednesday, October 15 | 8:30 AM – 4:00 PM | Cypress B

### No Child Left Inside (NCLI) — Is Your State Ready?

 PRESENTERS: Bora Simmons and Linda Rhoads


Thursday, October 16 | 9:30 AM – 11:15 AM | Chisholm

### Guidelines Trainers' Bureau Meeting (By invitation only)

 COORDINATOR: Bora Simmons

Saturday, October 18 | 9:30 AM – 11:15 AM | Walnut

### Environmental Education for Young Children: Guidelines for Excellence


 PRESENTER: Bora Simmons  
*What are the key characteristics of quality early childhood environmental education programs and materials? The National Project for Excellence in Environmental Education is in the process of developing a new set of guidelines focusing on early childhood environmental education. Come hear about the project and how you can become involved.*

## Pre-Service Education

**Workshop**—Preregistration Required

Thursday, October 16 | 8:30 AM – 4:30 PM | Broadview Hotel/Balcony Room


### NCATE/NAAEE Teacher Preparation Standards Training

 PRESENTERS: Pre-Service Advisory Council members Billy Bennett, Teresa Coker, Courtney Crim, Blanche Desjean-Perrotta, Himanshu Gopalan, Molina Walters, Christine Moseley, Linda Paznokas, Bora Simmons, Al Stenstrup, Gilda Wheeler, Terry Wilson

Thursday, October 16 | 4:00 PM – 4:45 PM | Cypress B


### Guidelines for Excellence and NAAEE/NCATE Accreditation:

#### Evidence for Meeting the Requirements

 PRESENTERS: Billy Bennett and Melinda Wilder  
*This session will illustrate how one environmental education certification program developed assessments to provide evidence of meeting the new NAAEE/NCATE initial review requirements. The program contextual information as well as the six required assessments will be shared along with examples.*


Friday, October 17 | 8:30 AM – 9:15 AM | Cedar

### Leveraging Pre-Service Teacher Education Programs to Include EE

 PRESENTERS: Bora Simmons and Terry Wilson  
*NAAEE's Standards for the Initial Preparation of Environmental Educators, approved by NCATE in October 2007, are impacting pre-service teacher education around the country. Come learn more about this exciting initiative and what it could mean for your institution.*


Friday, October 17 | 3:45 PM – 4:30 PM | Grand Eagle Ballroom A

### Interested in Becoming a National Program Reviewer for NAAEE/NCATE?

 PRESENTERS: Teresa Coker and Himanshu Gopalan  
*Do you have strong skills in: teacher preparation in EE, assessment, or NAAEE professional preparation guidelines? You could be chosen by NAAEE as a national reviewer. Learn benefits and expectations for service, and how reviewers will be selected and prepared.*


Saturday, October 18 | 7:30 AM – 8:30 AM | Osage

### Pre-Service Advisory Council Meeting

 CO-CHAIRS: Christine Moseley and Blanche Desjean-Perrotta

Saturday, October 18 | 1:45 PM – 3:30 PM | Grand Eagle Ballroom A

### What's Happening in Teacher Preparation?

 PRESENTERS: Pre-Service Advisory Council members Billy Bennett, Teresa Coker, Himanshu Gopalan, Molina Walters, Lynda Paznokas, Al Stenstrup, Gilda Wheeler  
*Join this interactive session to learn how colleges are preparing preK–12 teachers to teach environmental/sustainability education. Informally share details about your program and gain new ideas.*

## EETAP Partner Sessions

Members of the EETAP partnership are providing updates about their programs and progress in these sessions.

Thursday, October 16 | 9:30 AM – 11:15 AM | Cypress B

### Ready, Set, Engage! A Conservation Education Toolkit

PRESENTERS: Judy Braus, Mary Ford, Melissa Hopkins  
*Do you want to use education to achieve conservation goals? Do you want to better understand the value of education as a conservation tool? Come to this session to experience the EETAP-funded Ready, Set, Engage! conservation education resources.*

Friday, October 17 | 1:45 PM – 3:30 PM | Cypress A

### What's New from Project WILD and Flying WILD

PRESENTER: Marc LeFebre  
*Learn about activities and training opportunities for the new early childhood guide from Project WILD. Learn how you can get involved in Flying WILD's growing network of City Partners.*

Friday, October 17 | 3:45 PM – 4:30 PM | Cedar

### Learning from Case Studies of Programs using My Environmental Education Evaluation Resource Assistant (MEERA)

PRESENTER: Michaela Zint, Beth Cowitt, Patrick Dowd, Drew Burnett, Kathleen MacKinnon, Barbara McDonald  
*The My Environmental Education Evaluation Resource Assistant (MEERA) Web site was created in 2007 to help environmental educators conduct evaluations of their programs. Can MEERA achieve this goal? Learn about the experiences of 10 environmental education programs.*



**The Environmental Education and Training Partnership (EETAP)** is a national leader in the delivery of environmental education training for education professionals. EETAP supports a wide array of services and resources for education professionals and

is committed to ensuring that ethnically diverse and low-income communities benefit from, and actively participate in, education that advances student learning and environmental literacy.

EETAP is a partnership of nine organizations. The participating partners are recognized national leaders in the field of environmental education. They include:

- Association for Supervision and Curriculum Development,
- Council for Environmental Education,
- National Audubon Society,
- North American Association for Environmental Education,
- Project Learning Tree,
- Project WET,
- United States Fish and Wildlife Service/National Conservation Training Center,
- The University of Oregon, and
- University of Wisconsin-Stevens Point (UW-SP).

Each of the above partners works with national, regional, state, and local groups to accomplish EETAP objectives. UW-SP functions as the overall coordinator for Partnership activities and provides management, administration, communication, and reporting services under a cooperative agreement with US EPA's Environmental Education Division, which provides two-thirds of the funding for project activities. EETAP partners provide the other third.

EETAP's goals are to:

- 1: Build the understanding and skills needed to create comprehensive and sustainable EE programs at the state and local level,
- 2: Enable educators and decision makers to effectively use EE as a tool for improving teaching and learning and achieving a healthy and sustainable environment, and
- 3: Promote quality EE that is scientifically accurate, pedagogically sound, and responsive to community needs by improving educator access to EE programs, materials, and information.

To achieve these goals EETAP is implementing 12 separate activities. Each activity has specific outputs, outcomes, and evaluation plans. The activities focus on efforts such as:

- Development and delivery of on-line training,
- A Trainer's Bureau for the National Guidelines for Excellence
- Building Capacity for EE
- Building an EE Resources Review Program
- Expanding EE Certification Programs
- EE and Diversity Training

For more information about EETAP activities, partners, services, and resources visit [www.eetap.org](http://www.eetap.org).



# UWSP Spring 2009 Online EE Course Offerings

## Online Environmental Education Courses

### **New Course!!**

#### **Making EE Relevant for Culturally Diverse Audiences**

This course is designed to provide participants with the basic knowledge and skills needed to make environmental education (EE) relevant to culturally diverse audiences. Through this course, participants will broaden their perspective of EE to encompass interests and issues of concern to culturally diverse audiences, assess barriers to participation among culturally diverse audiences, and apply cultural competency skills in building relationships and partnerships with members of an audience they intend to work with in the future.

**NRES 410/610: Making EE Relevant for Culturally Diverse Audiences** is a 10-week course available for one undergraduate or graduate credit from the University of Wisconsin-Stevens Point. It is also available as a non-credit workshop.

Spring 2009 Course Dates: February 2 - April 17

#### **Fundamentals of Environmental Education**

Gain a foundational Knowledge of EE and learn how to incorporate quality EE into your instruction. Participants discuss the history and goals of EE and develop an understanding of the professional roles and instructional methods of environmental educators.

**NRES 410/610: Fundamentals of EE** is a 12-week course available for 3 undergraduate or graduate level credits through the University of Wisconsin-Stevens Point. It is also available as a non-credit workshop.

Spring 2009 Course Dates: February 2 - April 24

#### **Applied Environmental Education Program Evaluation**

Learn to evaluate environmental education and outreach programs by designing evaluation tools such as questionnaires, observation forms, and interview and focus group guides. This course was designed for environmental educators, natural resource professionals, and graduate students who can apply the tools they develop to a specific education program or research study.

**NRES 410/610: Applied EE Program Evaluation** is a 13-week course available for 3 undergraduate or graduate level credits through the University of Wisconsin-Stevens Point. It is also available as a non-credit workshop.

Spring 2009 Course Dates: February 2 - May 1



The Applied Environmental Education Program Evaluation Course was developed as a cooperative effort between the Environmental Education and Training Partnership and the U.S. Fish and Wildlife Services National Conservation Training Center.



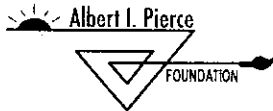
Environmental Education and Training Partnership

To register or to learn more please visit: <http://www.uwsp.edu/natres/eetap/index.aspx>

EETAP is a project of the UW-Stevens Point College of Natural Resources and is funded by the U.S. EPA's Office of Environmental Education

# earth art from the heart

The NAAEE staff and the Arts and Culture Commission have partnered with the Albert I. Pierce Foundation to help environmental educators rediscover the arts as an integral facet of learning about the environment. The Albert I. Pierce Foundation is the primary grant sponsor of the Wednesday music workshop, the Josh White, Jr., performance, several hands-on sessions, our photography contest, and film contest. We hope you are inspired by the works and enjoy them as much as we have bringing them to you.



## Workshops—Preregistration Required

Wednesday, October 15 | 8:30 AM – 4:00 PM | Stimson Room

### Music and Arts—Build It and They Will Come, Part 2

PRESENTERS: John Shortt, Joe Lombardi, Ira and Charlotte Erwin

Wednesday, October 15 | 8:30 AM – 4:00 PM | Redbud C

### Environmental Magic: Tricks for Improving the Environment... Just Like MAGIC!

PRESENTERS: Kent Cummins, Magic Hotline, and Chris Walden, Walden Magic Productions

## Performances

Wednesday, October 15 | 9:00 PM (immediately following keynote)  
MJ Teall Theatre

### Josh White, Jr.

Josh White, Jr., is a Grammy-nominated folk, blues, and gospel artist, a Tony Award winning actor, a teacher, and a social activist. During his song "It's in Every One of Us," you will see another fabulous slide show produced by Joe Baust and friends, with Josh White singing live as the photos are shown.



Josh White, Jr.

Thursday, October 16 | 6:30 PM – 8:30 PM | Exhibit Hall

**The Friends University Soulstice II Quintet** performs traditional jazz music from the 1940's all the way to more contemporary styles.

Giant Green Darner Dragonflies, Pacific Tree Frogs, and Banana Slugs are a few of the critters that will appear in "Backyard Buggin," a puppet show produced by Kansas City-based StoneLion Puppet Theatre.

Saturday, October 18 | 7:30 PM – 10 PM | MJ Teall Theatre

### The Grande Finale—Celebration and Variety Show

Capture the attention of your EE audience with information...and a little pizzazz! Begin the evening with networking, locally-



Chris Walden

Kent Cummins

brewed spirits, and other autumn fare. Professional magicians then introduce talented NAAEE members to show their stuff. CASH PRIZES FOR PERFORMERS. Admission includes non-alcoholic beverages, beer and wine, and snacks. Buy tickets at the Registration Office for only \$25.

## Hands-on Sessions

These hands-on sessions are just some of the presentations in the Arts, Culture and Environmental Education strand and are elements of the 2008 arts grant from the Albert I Pierce Foundation:

Thursday, October 16 | 9:30 AM – 11:15 AM | Birch

### The Camera as a Way of Connecting People to the Environment

PRESENTERS: Harry and Debra Spillman

Professional photographers who have been capturing images for NAAEE for the past three years will show you how to take photos that inspire people to take action to protect the environment. Bring your camera! Your photos could end up in the conference closing slide show.

Thursday, October 16 | 9:30 AM – 11:15 AM | Walnut

## Expressing the Relationship between Movement and Nature through Dance

PRESENTER: John Shortt

Various dance forms will be used as a way of expressing a relationship between movement and nature.

Friday, October 17 | 1:45 PM – 3:30 PM | Osage

## How to Take Award-Winning Environmental Photos

PRESENTER: Mark Buckler

Last year's Advanced Category Winner in the NAAEE/Pierce Foundation photo contest will share his experiences.

Saturday, October 18 | 9:30 AM – 11:15 AM | Osage

## Poetry Performance, Active and Interactive

PRESENTERS: Carl Lombardi, Joe Lombardi

A sample of (inter)active poetry performed by the presenters, a breakdown of techniques used therein, brainstorming/preparation for performance, culminating in short performances by participants.

## Displays

**Arts' Corner**—ongoing in the Exhibit Hall

Kansas artists will be selling pieces inspired by their rich environment. The artists will give 10% of their sales to NAAEE to build on the scholarship started last year for exhibitors incorporating the arts and EE.

## Anonymous Art

Grade 7 Wichita Public Schools Native American Indian Education Program will be hosting two arts events, a walk-through of local artist Black Bear Bosin's work (see schedule for tote bag inserts) and an Exhibit Hall display of art created by the students in this program and local artists.

## Interactive Art Installation

Friday, October 16 only | 6:30 PM – 8:30 PM | Exhibit Hall

### Land of Desire

Created by Kansas artist Hugh Merrill, the piece is composed of a sequence of 10 life-size graphic images of blue children's swimming pools filled with different plants that progress in a sequence.

## Arts Awards

Friday, October 17 | 4:45 PM – 5:00 PM | MJ Teall Theatre

Deb Thrall of the Albert I. Pierce Foundation presents the awards prior to the keynote presentation.

## Photo Contest

See the winning entries outside of Eagle ballrooms. Thank you to our photo contest judges:

- Joe Baust, former NAAEE President
- Harry and Debra Spillman, Spillman Photography

### AMATEUR CATEGORY:

- First Prize—*Tranquility*, Brian Brush, Kentucky
- Second Prize—*Elephant Behind Bush*, Henry Polk, Illinois
- Third Prize—*Botswana Sunset*, Trudi Volk, Illinois

### ADVANCED CATEGORY:

- First Prize—*Green Tree Frog*, Harold Hungerford, Illinois
- Second Prize—*Porcelain Tulip*, Kim Ort, Indiana
- Third Prize—*River Rock*, Dorothy Birch, Florida

## Film Contest

Selected film and video programs tell a positive story of how individuals and communities have come together to solve environmental problems. A list of judges is on page 97.

First Prize—*King Corn*

By growing an acre of corn in Iowa, two friends uncover the devastating impact that corn is having on the environment, public health, and family farms. Run time is 98 minutes. Film by Aaron Wolf, Ian Cheney, and Curt Ellis, entered by distributor Bullfrog Films

Screens Friday, October 17 | 9:30 AM – 11:15 AM | Redbud C

Second Prize—*Return to Penguin City*

Scientists Grant Ballard and Viola Toniolo discover that rapid climate changes may not only affect the penguins of Antarctica, but could also have major repercussions well beyond this remote corner of the world. Run time is 48:48.

Entered by Lloyd Fales, Producer/director/writer, Sweetspot Pictures

Screens Saturday, October 18 | 9:30 AM – 11:15 AM | Redbud C

Third Prize—*Everything's Cool*

Submitted by Bullfrog Films

This film will not be screened at the conference.

## After-Hours Sing-Along

Wednesday, Thursday, Friday, and Saturday | 10:00 PM – 11:55 PM  
Grand Eagle Ballroom C



# Commission, Committee,

Our annual conference is an excellent opportunity for EE professionals to recharge their batteries with new ideas, initiatives, and research results. Commissions, Committees, and Councils provide another opportunity for involvement within NAAEE and help to keep the field, NAAEE, and its members at the cutting edge. Commissions are open to all members—be sure to attend a commission meeting to learn more about how NAAEE members are improving the EE field. Committee and Council membership is by invitation so please contact the chair if you are interested in participating. A list of committees and councils and their chairs is on the NAAEE Web site at <http://www.naaee.org/about-naaee/committees-commissions-councils>

**THURSDAY, OCTOBER 16 | 9:30 AM – 11:15 AM**

## **Guidelines Trainers' Bureau | Chisholm**

This is a working meeting for members of the Guidelines Trainers' Bureau. By invitation only.

## **Get Outside and Help the Wichita Community**

Year after year, participants agree that more "outdoor" time would be great at the NAAEE conference. Here's your chance to give back to our host community, Wichita, and enjoy the fresh air with a few hours of service.

Create an outdoor nature art space for children with unique abilities. Rainbows United, Inc. serves children with special needs, birth to 5 years old. Rainbows' newly built facility focuses on connecting children to the natural world and learning through environmental exploration.

You have the opportunity to help Rainbows construct one of their outdoor learning components. You can leave a legacy and break a sweat for outdoor education and children with special needs. Join us during any or all of the service project sessions:

**Thursday, Friday, and Saturday**

**10:00 AM to NOON**

**and**

**2:00 PM – 4:00 PM each day**

Gather in the lower connecting lobby between promenade and Century II Convention Center about 10 minutes prior to departure for transport by the Rainbows United van.

**FRIDAY, OCTOBER 17 | 7:00 AM – 8:00 AM**

## **Arts and Culture Commission | Grand Eagle Ballroom B**

How do we inspire and motivate people to rethink how they live and to be more sustainable? The arts provide the passion that keeps us energized to create the new systems—in all professions—that will transform our world. Bring your energies and creativity to help continue this synergistic approach to environmental education!

## **Conservation Education Commission | Chisholm**

Join a diverse network of professionals working to build support for conservation through innovative educational strategies in its annual meeting. We will discuss the successes of 2008 and the direction for the commission in 2009. This is your chance to get informed and get involved.

## **Diversity Committee | Grand Eagle Ballroom C**

Meet colleagues interested in making NAAEE and the EE field more culturally diverse. Learn what Diversity Committee volunteers have accomplished to make the Association more inclusive. Find out about service opportunities and sign up to assist with key activities.

## **EE Advocacy Committee | Grand Eagle Ballroom G**

Reconnect face-to-face with other amazing leaders in the NAAEE Action Network! We'll recap and celebrate our successes of 2008 and strategize for our 2009 legislative agenda. Come learn about the incredible accomplishments of this committee. Everyone is welcome.

## **Finance Committee | Santa Fe**

Members of the Finance Committee will discuss Board feedback on the 2009 budget. We will address the annual audit status and quarterly financial statements to the Board of Directors.

## **Governance Committee Meeting | Grand Eagle Ballroom H**

The Governance Committee will prepare for the vote on the revisions to the constitution which will take place at the annual business meeting on Saturday, October 18, 8:45 AM–9:15 AM. It also will identify next steps for implementing its 2009 work plan.

## **Higher Education Commission | Stimson**

Start your day off bright and early with Higher Education Commission friends. Meet the new Commission Chair, see old friends, and hear about a Peace Corps graduate opportunity.

# and council meetings

## **Membership Committee** | Grand Eagle Ballroom F

The Membership Committee is meeting to discuss membership survey results and recommendations to improve membership services. Conference participants are welcome to drop by, hear the survey results, and share their insights and ideas.

## **Research Commission** | Osage

The Commission will discuss: the 2008 Research Symposium and plan for the 2009 Research Symposium, supporting ongoing development of national/thematic EE research agendas, advancing the summarizing of research, and other topics.

## **Service-Learning Commission** | Grand Eagle Ballroom A

Come meet folks interested in incorporating best practices of service-learning into their educational offerings. We are just forming as a Commission, so we welcome your ideas and energy!

**SATURDAY, OCTOBER 18** | 7:30 AM – 8:30 AM

## **Certification Advisory Council** | Chisholm

CAC members will review outcomes of the hands-on sessions held at the conference and plan a date for the 2009 CAC meeting.

## **Environmental Justice Commission** | Grand Eagle Ballroom A

The Commission will review the pre-conference workshop and establish a working agenda for the 2009 conference in Portland, Oregon.

## **Elementary and Secondary Education Commission** | Grand Eagle Ballroom H

Are you a K-12 teacher or administrator? Do you work with K-12 teachers? Join members of the Commission to help determine our initiatives for this year. Bring your creative ideas and help strengthen our network.

## **Leadership Development Committee** | Grand Eagle Ballroom F

Newly reformed, our committee is an exercise in emerging leadership. We are wrestling with big questions: Which of the many leadership models best suits NAAEE? How do we generate the next generation of EE leaders?

## **Pre-Service Advisory Council** | Osage

Advisory Council members will debrief on the Thursday workshop on the NCATE/NAAEE EE standards for university compilers and NAAEE reviewers, as well as other related conference sessions, and identify dates for council meetings in 2009.

## **Publications Committee** | Grand Eagle Ballroom C

Members will discuss and prioritize activities for the coming year. Join us to lend your ideas and your energy.

**SATURDAY, OCTOBER 18** | 3:30 AM – 5:30 PM

## **International Commission** | Santa Fe

The meeting is an opportunity to learn about and engage with this exciting commission. Come along to hear the outcomes from our planning workshops, conference panel discussions, and presentations and to participate in the vote for new commission officers. You also will have the opportunity to meet many of our international delegates.

## **Resource Reviews Advisory Council** | Grand Eagle Ballroom C

The Council will discuss the EE Resource Reviews training and other sessions at the conference and make plans for 2009 activities.

## **Sustainability Education Commission** | Grand Eagle Ballroom G

Join Co-Chairs Richard Jurin and Jaimie Cloud as they explore numerous questions about the commission. What are commission members doing? What is the SE Commission's unique role? Should it relate to other national EFS efforts? How can we best leverage the annual SE Strand? What do we need?

## CARING FOR



The Master of Arts in Environmental Education at the Merry Lea Environmental Learning Center of Goshen College takes place in a 1,189-acre classroom.

The program includes:

- An immersion in ecosystem studies
- A teaching practicum
- Leadership and program management training
- Excellent faculty
- Degree completion in 11 months

GOSHEN  
COLLEGE

[www.goshen.edu/merrylea/graduate](http://www.goshen.edu/merrylea/graduate)  
merrylea@goshen.edu



# exhibit fair

Look for Silent Auction tables in the Exhibit Hall on Thursday and Friday. Approximately 50 items will be displayed for each bidding.

## Authors' Corner

Herb Broda  
Ted Cable  
Gwendolyn Carroll  
Grace Cormons  
Laurie Coventry-Payne  
Kent Cummins & Chris Walden  
Tim Grant  
Jocelyn Jackson  
Diane Page  
George Potts  
Ian Signer  
Carla Tantillo  
Jana Willis  
Shin-Cheng Yeh  
Huiching Yu

The 2008 Exhibit Fair has much to offer all attendees! Be sure to visit the more than 45 exhibitors and a wide range of activities taking place. Fabulous events taking place in the Exhibit Hall include the opening reception on Thursday night where you can:

- meet the candidates for the NAAEE Board and ask about their plans for the future of NAAEE;
- browse the many poster presentations and interact with their presenters;
- learn more about your local Affiliate organization and indulge in some tasty pies at the Affiliates' Welcome;
- meet NAAEE Commission members and find out how you can get involved in enhancing our profession;
- meet the Kansas growers who have been busy cultivating much of the food we'll enjoy at the conference—at a special NAAEE "Farmers' Market" right in the Exhibit Hall;
- enjoy performances by StoneLion Puppet Theatre and the Soulstice II jazz ensemble from Friends University;
- view a provocative art installation by artist Hugh Merrill called "Oceans of Desire," and
- dine on a delectable dinner buffet of locally-grown foods.

Friday's schedule includes a sumptuous dessert buffet comprised of locally harvested delights and our Authors' Corner, where 16 local and international authors will be on hand to sign their books.

The arts will be well represented in the hall. The Artists' Corner will feature several Kansas artists and their beautiful creations. Ten percent of all sales goes towards NAAEE's Environmental Education in the Arts scholarship fund, so come prepared to shop!

Don't forget to visit the NAAEE booths and learn more about the great benefits we offer such as the Guidelines for Excellence and EE Resource Reviews.

## Exhibit Fair Schedule

Century II Convention Center - Exhibition Hall

*Check the daily schedule highlights for details about each day's special events.*

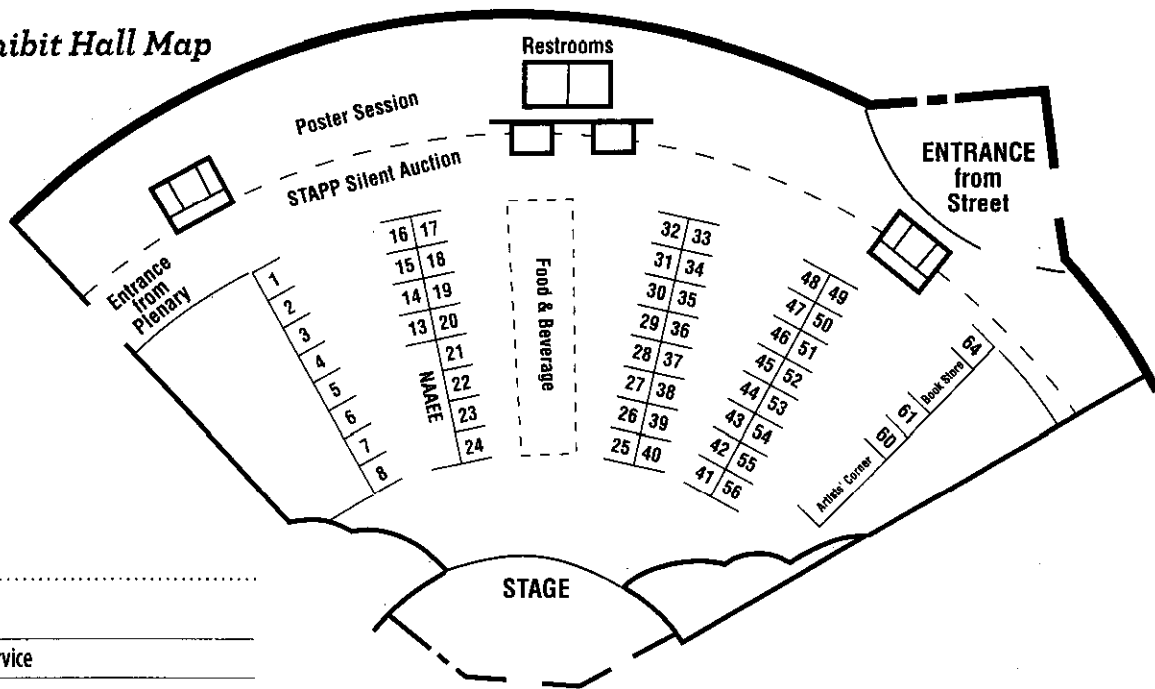
### Thursday, October 16

5:30 PM - 9:30 PM Exhibit Hall Open  
6:30 PM - 9:30 PM Exhibit Hall Opening Reception

### Friday, October 17

9:00 AM - 3:00 PM Exhibit Hall Open  
11:30 AM - 1:30 PM Authors' Corner

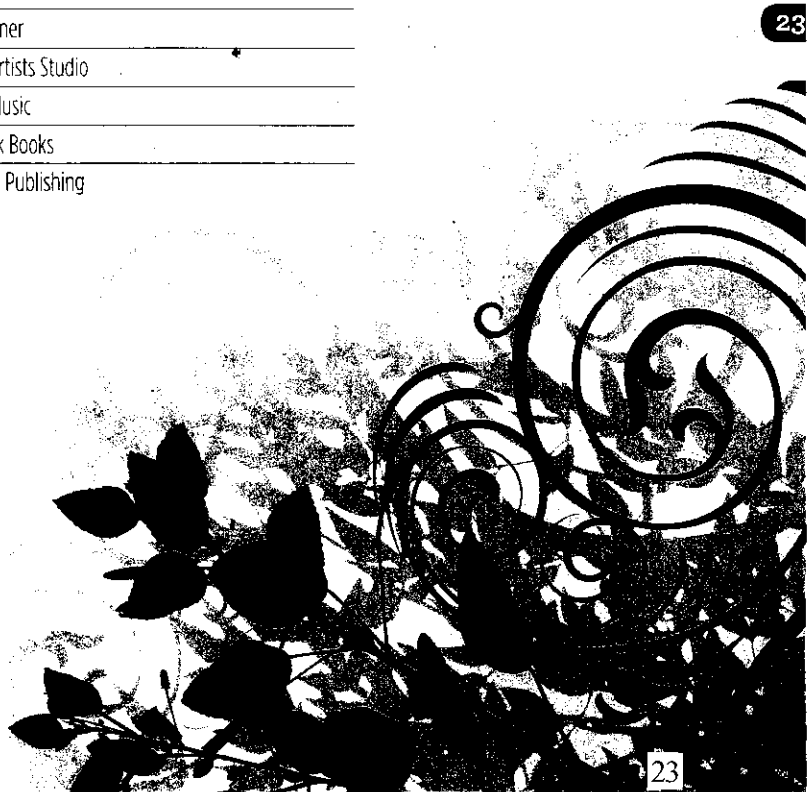
# Exhibit Hall Map



## Exhibitors

Booth	Organization
1 & 2	US Fish and Wildlife Service
3 & 4	US Forest Service
6 & 7	NOAA Education
8	Exploring Earth from Space (TERC)
9	NAAEE
10	NAAEE Affiliates
11	NAAEE Resource Reviews
12	National Project for Excellence in EE
13 & 14	RiverWorks Discovery
16	National Environmental Education Foundation
17	Council for Environmental Education (CEE)
18	Annenberg Media
19	International Crane Foundation
20	Earth Partnership for Schools, UW-Madison Arboretum
21	5th World Environmental Education Congress
22	Wichita Public Schools Native American Education Program
23	Prescott College
24	Spillman Photography
25	Audubon Expedition Institute at Lesley University
26	Powersmiths
28	The New York Botanical Garden
29	Terracon Consultants, Inc.
30	Water Environment Federation
31	Merry Lea ELC of Goshen College
32	Friends University
33	Carolina Biological Supply Co.
34	National Association of Conservation Districts (NACD)
35	Project WET
36	Greensburg GreenTown
37	Student Conservation Association
39	Nature Explore
40	The GLOBE Program
41	Institute of International Education

Booth	Organization
42 & 43	Earth Force
44	Environmental Education Association of Oregon
45	Travel Portland
46	Wildlife Habitat Council
47	Environmental Magic
48	School Technology Resources
49	Project Learning Tree
50	Bullfrog Films
51	Can Manufacturers Institute
52	The Cloud Institute for Sustainability Education
55	StoneLion Puppet Theatre
56	PASCO scientific
57-59	Artists' Corner
60	Working Artists Studio
61	Recycled Music
62 & 63	Watermark Books
64	Sylvan Dell Publishing





# Let's Go Outside!

*Start exploring at our site...*

*[www.fws.gov/neighborhoodexplorers](http://www.fws.gov/neighborhoodexplorers)*

U.S. Fish and Wildlife Service, National Conservation Training Center, Div. of Education Outreach





**The US Fish and Wildlife Service** works with partners to conserve, protect and enhance fish, wildlife, plants and their habitats for the continuing benefit of the American people. We manage the National Wildlife Refuge System, the world's premiere network of lands and waters dedicated to wildlife conservation, and the national fish hatcheries, which work to restore our nation's native fisheries. These

special places, along with our field offices, provide a variety of wildlife-dependent recreation opportunities for the American people to enjoy.

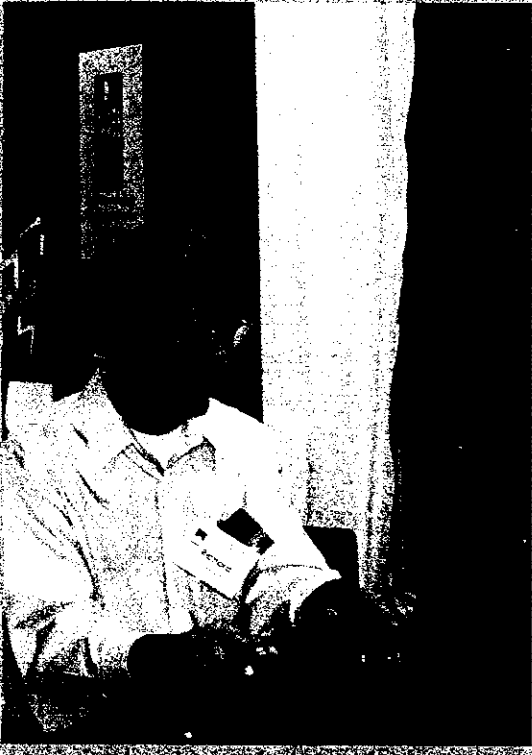
*Let's Go Outside!* is a program of the Service aimed at engaging the American public to go outside and enjoy the many and diverse natural areas of our country. The program was established in 2007 with the vision for "all Americans to have enjoyable and meaningful outdoor experiences in the out-of-doors and develop strong life-long connections to the natural world." Our employees are the heart of this program that is coordinated nationally out of the National Conservation Training Center.

*Let's Go Outside!* has developed a cadre of *Let's Go Outside* Ambassadors in Service field offices who work in partnership with local communities across the country. Ambassadors work to develop conservation values among people by connecting them with nature through activities such as environmental education, interpretation, hunting, fishing, and observing and photographing wildlife. Working with other conservation organizations, the Service is targeting parents, educators, children, communities, and health care professionals. *The Let's Go Outside!* program is building our agency's capacity to provide local partners with outreach materials such as tool kits, brochures, and exhibits. *Let's Go Outside!* is an on-going national initiative, and funding is available for local agency field offices to establish new efforts through "The Nature of Learning" grants program. Additionally, a web-based, interactive software program, "Neighborhood Explorers," has been developed to encourage kids to go outside and explore nature where they encounter it. Go to <http://www.fws.gov/neighborhoodexplorers/> to start exploring!

For more information, please contact our general phone number at 304-876-7319, or specifically:

- ▶ *Let's Go Outside*—Matt Gay, 304-876-7654, [matt\\_gay@fws.gov](mailto:matt_gay@fws.gov)
- ▶ Education Outreach Program Support—Georgia Jeppesen, 304-876-7388, [georgia\\_jeppesen@fws.gov](mailto:georgia_jeppesen@fws.gov)
- ▶ Education Outreach Training—Dawn Lagrotteria, 304-876-7339, [dawn\\_lagrotteria@fws.gov](mailto:dawn_lagrotteria@fws.gov)

# WANT YOUR VOICE HEARD?



Cast your vote for our next board members. To place

your name on the board/

visit [www.naaee.org](http://www.naaee.org)

or call 781-862-1234

for more information.

Thank you for your support!

With love and respect,

The NAAEE Board

## A Fun Magic and Variety Show

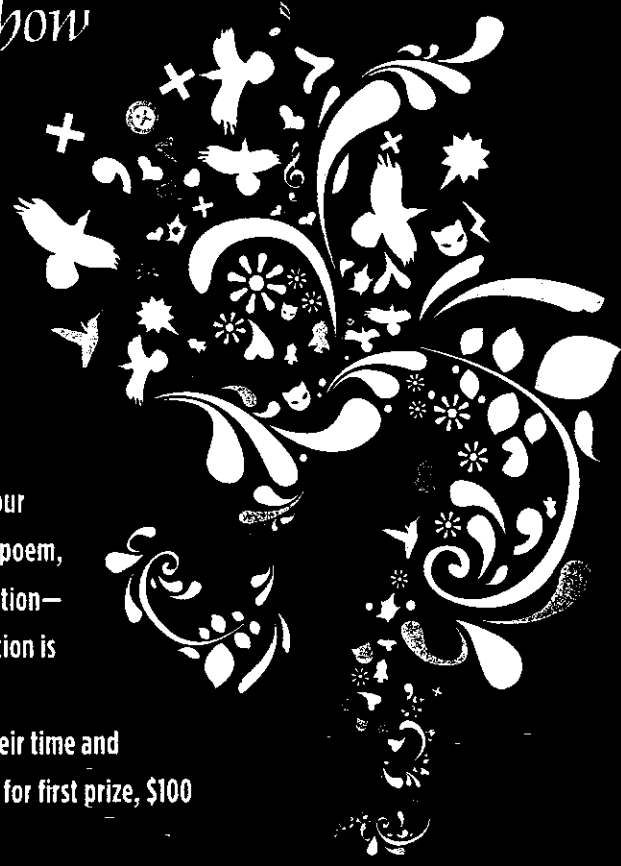
Tickets on Sale until Noon on Thursday

Help us celebrate all we have learned this week in Wichita.

Our co-hosts for the evening are Kent Cummins of Magic Hotline and Chris Walden of Walden Magic Productions. In addition to performing their special form of environmental magic, they will introduce our variety show entrants and keep you entertained during set changes. Will a member of the NAAEE leadership really dare to be sawed in half? Be there to find out!

The show is an effort to celebrate the great breadth of skills of our members. Performers may play an instrument, sing a song, read a poem, tell a story, or dance. Or they may demonstrate their skill at facilitation—leading the audience to sing or dance together. Audience participation is expected.

All selected performers will receive a cash prize as thanks for their time and talent and will be eligible for a drawing for larger cash prizes: \$150 for first prize, \$100 for second prize and \$50 for third prize.



# menus

## **Wednesday Reception**

Boulevard Beer Fondue made with Boulevard Beer & Pat's Homegrown Kansas Cheeses, served with Assorted Bread from Little Red Hen Bakery  
Swedish Meatballs  
Bruschetta  
Mini Corn on the Cobs  
Cous Cous Salad  
Chicken Satay  
Cash Bar featuring local spirits

## **Thursday Lunch**

Manicotti Stuffed with sausage and ricotta cheese on top of sautéed spinach from Pat's Homegrown Kansas Farm  
Bread from the Country Cupboard  
Assorted Desserts from Bagatelle Bakery in Wichita  
*Vegetarians & lactose intolerant ask for the Spinach Manicotti*

## **Thursday Exhibit Hall Dinner**

Hearty Vegetable Soup with barley  
Chickory Salad  
Country Fried Chicken  
Collard Greens  
Sour Cream and Chive Mashed Potatoes  
Assorted Bread from Little Red Hen Bakery  
Cash Bar featuring local spirits

## **Friday Dinner Buffet**

Grilled Beefsteak Tomato & Asparagus  
Cowboy Caviar (corn, black beans, black-eye peas)  
Tabouli Salad  
Baked Sweet Potatoes  
Grilled Cantelope & Pears w/ Caramel Drizzle  
Hickory Smoked Beef Brisket  
Spinach and Feta Stuffed Pork Tenderloin  
with Pear Chutney on top  
Whole Roasted Baby Potatoes  
Zucchini & Squash Medley  
Cantaloupe  
Assorted Cookies (chocolate chunk, white chocolate macadamia, etc.)  
Assorted Cakes, Pies, & Tiramisu  
Coffee, Tea, Water  
Cash Bar featuring local spirits

## **Friday Dessert during Authors' Corner**

Peanut Brittle from Sittee's Special Treats  
Miniature Pastries/Cookies from Bagatelle Bakery

## **Saturday Awards Lunch**

Salad with Balsamic Vinegar Dressing  
Fresh Mozzarella sprinkled Tomato Crown with a medley of vegetables to include Red Potatoes, Spaghetti Squash, Acorn Squash, Green Beans and Turnips (all vegetables from these farms: Pat's Homegrown Kansas Farm, Corr's Sisters, Muddy Boots Farm)  
Carrot Cake from Bagatelle Bakery  
*Lactose intolerant ask for Tomato Crown without Mozzarella*

***Please Complete  
the Conference  
Evaluation!***

***We want to hear from you!***

Help us continue to improve your conference experience by completing the 2008 evaluation at [www.naaee.org/conference/evaluation](http://www.naaee.org/conference/evaluation).

Your feedback will make the 2009 conference in Portland, Oregon, an even greater success.

Were there things about the conference that you really like? Were there things that you feel need improvement? Loved a presentation? Enjoyed the food? Had a great time on your field experience? Tell us.

Thank you!

27



# conference strands

## Conference Strands Provide Hundreds of Learning Opportunities

With 22 concurrent sessions in most time slots during the three-day conference, the eight conference strands are all given special attention. Thank you to our strand leaders and strand reviewers for their hard work!

### Arts, Culture, and Environmental Education

Learn how the arts and culture (encompassing areas of archaeology, architecture, the visual arts and music) can have a positive impact on teaching and learning about the environment. Artistic creativity can help solve environmental problems and inspire communities to be more engaged and principled.

### Conservation Education

Explore how to connect people to the land by providing them with the tools they need to take informed actions related to sustaining natural and cultural resources. Develop the tools (skills, values, knowledge) needed to work towards the prevention and resolution of environmental issues at all levels.

### Energy Education

All aspects of energy, from its production to distribution to consumption to disposal, have a profound impact on the environment. Citizens must understand these impacts, as well as methods to reduce their own impacts. Energy efficiency and renewable energy will be a particular focus of this strand, which will explore innovative and effective methods for providing energy education to a variety of audiences.

### Best Practices for Advancing Environmental Education

Many organizations help build the infrastructure to support environmental literacy. But in a world of finite resources, what are the best and most strategic approaches? Organizations are challenged with balancing efforts to sus-

tain themselves while providing, promoting and advancing high quality EE programs. This strand is for those interested in taking a high-level look at some strategic approaches to advancing EE.

### Environmental Justice, Environmental Health, and Climate Change

Sessions in this strand can help us reflect on vulnerable communities, particularly those of color, that are developing health problems due to pollution and environmental degradation. Climate change is the latest and most troubling EJ issue as indigenous and marginalized populations globally pay heavy tolls from disease, famine, and loss of land, livelihood, and culture.

### Food, Agriculture and Environmental Education

Build awareness, knowledge, and skills about how food, agriculture, and environmental issues impact personal and environmental health. Learn to help children and adults make connections—from our food production, processing, and transporting practices to our ecological footprint, and from our food choices to our health.

### Early Childhood Environmental Education

Increasingly, our society is recognizing that the young child is well served by being outdoors, observing, exploring, and playing. Additionally, environmental literacy and stewardship can be built by repeated experiences starting in early childhood. The education of young children opens new opportunities for the EE professional.

### Religion, Spirituality and Environmental Education

Faith, religion, and spirituality play pivotal roles in the formation of our society's beliefs about and stewardship of the world around us. The strand focuses on how innovative environmental education engages body, mind, and spirit to address complicated environmental issues.

**PK2** preK–12 Formal Education: *Appropriate for classroom teachers and others who teach in formal educational settings.*

**NF** Non-formal Education: *Appropriate for those who teach in non-formal or informal settings.*

**RE** Research/Evaluation: *Includes a research/evaluation component.*

**DV** Diversity: *Appropriate for those interested in enhancing/promoting diversity in environmental education.*

**SNL** Special Needs Learners: *Supports inclusion for special needs learners, such as learning disabled; sight and/or hearing impaired, limited mobility English Language Learners (ELL), and others.*

**SL** Service-Learning: *Appropriate for those interested in learning about the value of and procedures for infusing service-learning pedagogy into EE programs and instruction (whether formal or non-formal).*

# session formats

## and key to listings

### Session Formats

#### Traditional Presentations (45 minutes)

These sessions focus on a topic or program and typically involve a presentation, followed by time for discussion and questions, although this may vary.

#### Poster Session

Poster reports on EE research and innovative programs and projects. Poster presentations will run simultaneously in a common area with participants freely moving from one poster to another.

#### Hands-on Sessions (1 hour & 45 minutes)

Hands-on sessions deal with a single topic or program, in an interactive setting where participants can have an open discussion with an experienced expert. Not intended as a lecture.

#### Hands-on Community Room (1 hour & 45 minutes)

Hands-on presentations were once again a popular submission format this year. However, the longer (1 hour-45 minute) time allotment means we are only able to accommodate about four per strand. In an effort to accept more hands-on presentations, we created a "community hands-on room" for Thursday afternoon, and on Friday and Saturday in both the morning and afternoon.

#### Symposium (1 hour & 45 minutes) & Panels (45 minutes)

Discussions where speakers with different perspectives on a common topic share their thoughts and insights with an interactive audience.

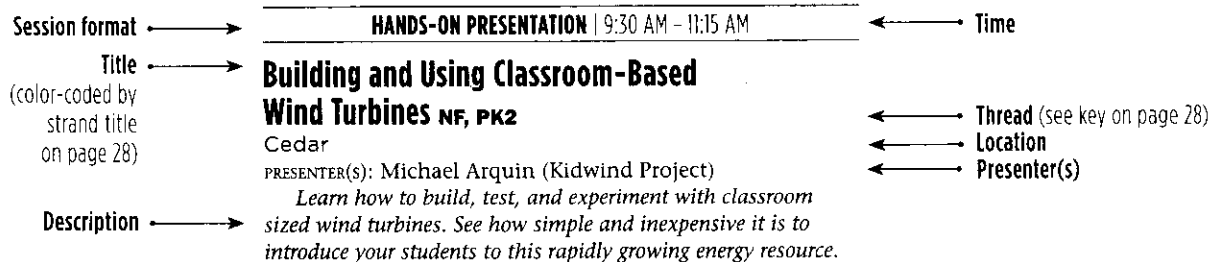
#### Roundtable Discussion (1 hour & 45 minutes)

Roundtable discussions are informal presentations that overlap two sessions. Participants may enter and leave throughout the discussion. Roundtables are presented in a "community room."

#### Proposal Review Process

This year, NAAEE received more than 450 high-quality proposals related to the eight conference strands, reflecting a wide range of experiences, perspectives, and research in sustainability and environmental education. Each proposal was peer-reviewed, coordinated by a strand leader with expertise in the specific areas. Reviewers were provided uniform review criteria in advance. This careful process aimed to ensure quality and an overall balance of views in the presentations.

## Key to Events Listings



# tues/wed at a glance

## Tuesday, October 14

8:00 AM - 5:00 PM	<b>NAAEE Board of Directors Meeting</b>	Enterprise Boardroom
8:00 AM - 5:00 PM	<b>5th Annual Research Symposium</b>	Broadview Hotel
8:00 AM - 5:00 PM	<b>EPA Environmental Education Coordinators Meeting</b>	Maple
8:00 AM - 5:00 PM	<b>Field Experiences</b>	Leave from Connecting Lobby in Century II
8:00 AM - 5:00 PM	<b>Early Childhood Guidelines Writing Team</b>	Osage
Noon - 1:00 PM	<b>Research Symposium Lunch</b>	Broadview Hotel
5:00 PM - 6:30 PM	<b>Registration Office Open</b>	201 A/B
5:30 PM - 7:00 PM	<b>Research Symposium Reception</b>	Meade Terrace
5:30 PM - 7:00 PM	<b>Affiliate Mentor Meeting</b>	Grand Eagle H

## Wednesday, October 15

Shuttle buses begin operating this day; see schedule page 7

7:00 AM - 6:00 PM	<b>Registration Office Open</b>	201 A/B
7:00 AM	<b>Coffee Service for Wednesday Workshop Participants</b> Thank you Nature's Path for donating the snacks	Grand Eagle A-E
8:30 AM - 5:00 PM	<b>NAAEE Board of Directors Meeting</b>	Enterprise Boardroom
8:30 AM - 4:00 PM	<b>Workshops</b>	See room list on page 31
8:00 AM - 5:00 PM	<b>5th Annual Research Symposium</b> (Lunch on your own)	Broadview Hotel
8:00 AM - 5:00 PM	<b>EPA Environmental Education Coordinators Meeting</b>	Grand Eagle F
Noon	<b>Buffet Lunch for Wednesday Workshop Participants</b>	Grand Eagle A-E
Noon	<b>NAAEE Board &amp; Affiliate Lunch</b>	Osage
5:15 PM - 5:45 PM	<b>New Member Welcome</b>	Osage
5:30 PM - 7:00 PM	<b>All Commissions Reception</b>	Grand Eagle A-E
5:30 PM - 7:00 PM	<b>School of Natural Resources and Environment at the University of Michigan Reception</b>	Chisholm
7:00 PM - 10:00 PM	<b>Conference Opening</b>  <b>Video welcome by Governor Sebelius</b>  <b>Keynote: Dan Barstow</b>  ♪ <b>Performance by Josh White Jr.</b>	Mary Jane Teall Theatre
9:00 PM	<b>Multi-cultural Nightly Gatherings</b>	Redbud A
10:00 PM - 11:55 PM	♪ <b>After Hours Sing-Along</b>	Grand Eagle C

## Wednesday Highlights

**Workshops:** 8:30 AM – 4:00 PM (unless otherwise noted)

Workshops are not included in conference registration, and require pre-registration and pre-payment to attend. It may be possible to register and pay on site—please see the NAAEE Office (Room 201 A/B) if you would like to attend a workshop for which you have not pre-registered.

### **A Walk-About in Wichita**

#### **Affiliates Workshop**

#### **Be the Best! What EE Resource Reviews Can Do for You**

#### **Celebrating Conservation: Planning Special Events and Festivals for Conservation**

#### **Environmental Magic: Tricks for Improving the Environment . . . Just Like MAGIC!**

#### **Learning With Nature—Environmental Education Ideas for Early Childhood**

#### **Music and Arts—Build It and They Will Come, Part 2**

#### **No Child Left Inside (NCLI)—Is Your State Ready?**

#### **One-Day Introduction to Education for Sustainability (EFS) Workshop**

#### **Poetry's Vital Role in Environmental Education**

#### **Schoolyard Native Habitats on the Prairie**

#### **Service-Learning 101 and 102**

Meet at 7:30 AM in Promenade Connecting Lobby

Redbud B

Redbud A

Chisholm

Redbud C

Birch

Stimson

Cypress B

Walnut

Oak

Meet at 7:30 AM in Promenade Connecting Lobby;  
return at 4:30 PM

Cypress A

### **NAAEE Commission Dinner**

Come one—come all! Learn what the commissions are all about and enjoy farm fresh local produce. See page 27 for the menu.

### **Video Workshop: Governor Kathleen Sebelius**

Governor Sebelius, who was re-elected in 2006, has supported a variety of environmental initiatives including promoting renewable energy sources such as biofuel production and wind energy. She has supported conservation of energy in public buildings and promoted the use of Kansas food products in Kansas food programs.



# thursday at a glance

Shuttle buses operating, see schedule page 7.

7:00 AM – 11:30 AM	<b>Registration Office Open</b>	201 A/B
7:00 AM	<b>Coffee Carts Open</b> Thank you Nature's Path for donating the snacks	
7:00 AM – 8:15 AM	<b>CCC Breakfast</b>	Redbud C
8:30 AM – 11:30 AM	<b>Concurrent Sessions</b>	
8:30 AM – 4:30 PM	<b>NCATE/NAAEE Teacher Preparation Standards Training</b>	Broadview
11:45 AM – 1:15 PM	<b>Lunch served during Creating Equitable Climate Change Solutions through Artistic Expressions</b>	Convention Hall
1:30 PM – 5:00 PM	<b>Registration Office Open</b>	201 A/B
1:30 PM – 4:45 PM	<b>Concurrent Sessions</b>	
3:30 PM – 8:30 PM	<b>Exhibit Hall Open</b>	Exhibition Hall
5:00 PM – 6:00 PM	<b>Plenary (Gail Kimbell)</b>	Convention Hall
6:30 PM – 8:30 PM	<b>Exhibit Hall Opening Celebration</b>	Exhibition Hall
7:00 PM	<b>Conservation District Employees or others affiliated with Conservation Districts</b>	Exhibit Hall @ NACD Booths
8:00 PM – 9:00 PM	<b>Sponsor &amp; Donor Thank You</b>	Meadowlark Suite
9:00 PM	<b>Multi-cultural Nightly Gatherings</b>	Redbud A
10:00 PM – 11:55 PM	<b>After Hours Sing-Along</b>	Grand Eagle C

OCTOBER 16

## Thursday Highlights

### Creating Equitable Climate Change Solutions through Artistic Expressions

In Convention Hall, a plated lunch will be served during this panel discussion. See page 10 for more information.

### First Female Chief of the US Forest Service Gail Kimbell

Join us as we welcome Chief Kimbell to Wichita and hear her talk about Reconnecting Kids to Nature. See page 9 for more details.

### Committee, Commission, Council Chair Breakfast

If you are the chair of a committee, commission, or council and you responded to the invitation, please remember to join everyone for breakfast in Redbud C at 7:00 AM.

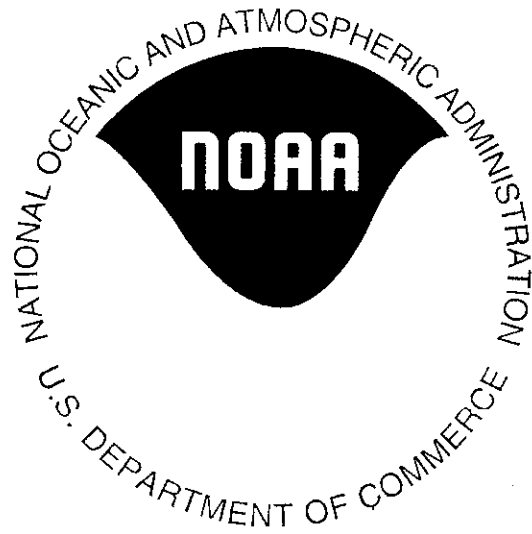
### Exhibit Hall Grand Opening

... with puppets, posters, a jazz quintet from Friends University, a full dinner buffet, and pies for dessert at the Affiliate tables. Artist Hugh Merrill will present "Oceans of Desire," a provocative art installation. Meet the NAAEE candidates at the NAAEE booth. New this year, commissions will have tables to help you learn about their efforts and help you get involved. The Kansas Grown! Farmers' Market has invited some local farmers to set up a market in the hall! Check out pages 22–23 for more information and see the menu on page 27.

*Planning Page*

7:00 AM  
7:30  
8:00  
8:30  
9:00  
9:30  
10:00  
10:30  
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NOTES



**THURSDAY  
OCTOBER 16**

# **Promoting Environmental Literacy**

To find out about our  
scholarships,  
granting opportunities,  
and learning resources  
please visit:

**NOAA's Office of Education**  
**<http://www.oesd.noaa.gov/>**

7:00 AM – 8:15 AM

## Commission/Committee/Council Chairs Breakfast

Redbud C

By invitation only.

**WORKSHOP** 8:30 AM – 11:30 AM

## NCATE/NAAEE Teacher Preparation Standards Training (Morning Session)

Broadview/Balcony

PRESENTER(S): Gilda Wheeler (OSPI), Blanche Desjean-Perrotta (University of Texas San Antonio), Christine Moseley (University of Texas at San Antonio), Teresa Coker (Green Mountain College), Lynda Paznokas (Washington State University), Courtney Crim (University of Texas San Antonio), Terry Wilson (Western Kentucky University), Bora Simmons, Billy Bennett (Eastern Kentucky University Center for Environmental Education), Himanshu Gopalan (Winston-Salem State University), Molina Walters (Arizona State University), Al Stenstrup (Project Learning Tree)

*Critical information that university teacher preparation programs need to meet the national EE standards adopted by NCATE/NAAEE. Session will include in-depth review of the new standards, strategies for incorporating them into curriculum, sample assessments, hands-on activities, and exemplary models. Preregistration required.*

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**TRADITIONAL PRESENTATION** | 8:30 AM – 9:15 AM

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### A Field Guide to Nonprofit Boards

Birch

PRESENTER(S): Sue McGuire (Wyoming Association of Environmental Education)

*They come in many shapes and sizes. Managing them can be like herding cats. They often go astray. The behavior of isolated individuals may be quite different from group behavior. Learn the proper care and cultivation of your board species.*

**NF**

Santa Fe

PRESENTER(S): Camilo Camargo (OpEPA)

*Ecoclubs are democratic organizations, composed by children and youth, that work in local action projects to improve the quality of life of their communities. In Colombia, OpEPA runs a network of more than 10 Ecoclubs and participates in international networks.*

**NF, PK2**

Grand Eagle Ballroom E

PRESENTER(S): Tim Grant (Green Teacher)

*Eight guiding principles for reforming education are introduced, along with learning activities that variously explore food systems, calculate ecological footprints, differentiate between needs and wants, and demonstrate connections to the world's peoples and ecosystems.*

### CEO Integration: A Dynamic Course in Achieving Educational Objectives **NF**

Maple

PRESENTER(S): Laurene von Klan (Notebaert Nature Museum), Nancy Picard (RHR International)

*Making sure everyone is working together is an essential step toward meeting your educational goals. This session presents a real-world look at CEO integration and team development in a small academy of sciences and associated nonprofit museum.*

### Climate Literacy Resources

Stimson

PRESENTER(S): Daniel Barstow (TERC)

*Climate Literacy Network has assembled a collection of resources to help your students of all ages learn about climate and engage in climate action. You will get this Resource Guide, participate in hands-on examples, and discuss ways to teach about climate.*

### Developing a Sustainable Fundraising Plan for Your Organization

Osage

PRESENTER(S): Jennifer Visitacion (Environmental Education Consultant)

*Raising money is a crucial part of capacity building for nonprofit environmental education programs. Where do you begin when you need the money yesterday? Learn the components of a sustainable fundraising plan while receiving useful tips for fundraising at any stage.*

### Development, Implementation and Evaluation of Teacher's Training Program for Environmental Education in Japan

Oak

PRESENTER(S): Yasuhiko Okamoto (Azabu University), Masakazu Goto (National Institute for Educational Policy Research of Japan), Naoyuki Tashiro

*The effective teacher's training program for EE was developed and implemented by the teacher training collaborative team in Japan. It was evaluated based on four levels which represent a sequence of ways to evaluate programs.*

### "Earth Community"—Bridge or Barrier? **NF**

Grand Eagle Ballroom C

PRESENTER(S): Peter Sawtell (Eco-Justice Ministries)

*In some circles, "Earth Community" is replacing "the environment" as a term that includes humans and the rest of creation. Can that language be a helpful bridge between scientific and ethical communities, or are there conflicting assumptions?*

### EE Grows Up: Making Sustainability Relevant to Adults **NF, PK2**

Cedar

PRESENTER(S): Kathleen Cowles Paul (PA Center for Environmental Education)

*How are professional environmental educators supporting ADULTS who need information and resources to take environmentally responsible actions in their personal and professional lives? This presentation and group discussion will explore ways to make EE both relevant and useful for adults.*

### Environmental Education at the Movies **PK2**

Grand Eagle Ballroom B

PRESENTER(S): Daniel Bergman (Wichita State University)

*It's SHOWTIME! Learn how to make environmental issues come alive through shows like "The Day after Tomorrow," "Fern Gully," "Hoot," and more. This session presents EE applications to movies and other media that are a part of students' daily lives.*

## Environmental Education for Sustainability: What Should it Take? RE

Walnut

PRESENTER(S): Uri Zoller (Haifa University-Oranim)

*Environmental education for sustainability requires the development of students' evaluative system thinking and transfer capabilities in the science-technology-environment-society context via higher-order cognitive skills-promoting teaching and assessment strategies. Both research and practice suggest that this goal is attainable.*

## Finding a Home for Environmental Education Research: Behavior or Memory? RE

Cypress B

PRESENTER(S): Ingrid Weiland (Indiana University)

*This presentation explores the theoretical backgrounds of environmental education and seeks a measurable conceptual framework to evaluate the impact of EE programs. The presentation will focus on behavior change models and will introduce memory theories as researched by cognitive psychologists.*

## Making W.I.N.-W.I.N Win-Win: Needs Assessment for a Mature Conservation Education Program RE

Grand Eagle Ballroom H

PRESENTER(S): Emmalou Norland (e-Norland Group), Joe Heimlich (Ohio State University)

*When an outstanding program continues to lose its funding, it's difficult to know what to do. This session will present the process that W.I.N.-W.I.N., an in-school and field trip program for low-income schools in Denver, went through to make a decision.*

## Native Waters, Native Science, the Native Spirit of Science NF

Grand Eagle Ballroom D

PRESENTER(S): Scott Frazier (Project WET Native Waters)

*Survival of Indigenous EE traditions are based on Tribal elders mentoring youth, allowing the youth to adapt traditions for use as current EE survival tools. The adaptation of tradition allows growth in knowledge that has historically provided Indigenous people advancement.*

## RiverXchange: Using Video-teleconferencing Technology to Advance Water Education NF, PK2

Chisholm

PRESENTER(S): Jessica Pascoe (National Great Rivers Research and Education Center), Katie Babuska (Experiential EE, LLC)

*Having difficulties bringing water education into the classroom beyond an annual water festival? Find out how water festival coordinators in two states (IL and NM) teamed up to bring water education into four elementary classrooms using video-teleconferencing technology.*

## The Communication and Responsiveness Needed to Embrace Change RE

Grand Eagle Ballroom F

PRESENTER(S): Kimberly Austin (Terracon Consultants, Inc.)

*Stormwater issues are a global concern. The sustainability, amenities, and flood control capabilities of stormwater ponds require proper design and maintenance. Learn how you can make well-informed decisions in your own neighborhood.*

## Urban Renaissance: Downtown Business Recycling as a Sustainability Case Study NF

Grand Eagle Ballroom G

PRESENTER(S): Bianca Howard (City of Raleigh Solid Waste Services)

*In 2006, the City of Raleigh began a curbside recycling program for its central business district which has grown steadily. Learn how staff used social marketing and personal relationships to build support that reflects emphases on downtown development and environmental protection.*

## WaterLINK: Utilizing Service-Learning to Enhance and Protect Water Quality SL

Redbud A

PRESENTER(S): Christa Smith (Kansas WaterLINK), William Hargrove, Jan Middendorf (Kansas State University)

*WaterLINK aims to infuse service-learning into the college classroom, with a goal of improving water quality through community-campus partnerships. Learn about WaterLINK's statewide projects and how similar programs with this pedagogy can work in your area.*

SYMPOSIUM | 9:30 AM - 11:15 AM

## Building Vulnerable Communities' Capacities to Implement Climate Change Adaptations DV, NF, PK2, RE

Redbud B

PRESENTER(S): Diane Pruneau (Université de Moncton), Mélanie Demers (Université de Moncton), Omer Chouinard (Université de Moncton), Jimmy Therrien (Université de Moncton)

*A short play shows people's ideas on climate change. The panel presents experiments in which vulnerable communities' citizens succeeded in proposing climate change adaptations with the help of problem solving, scenario building, and decision making educational strategies. A discussion follows.*

## The 21st Century City: EE's Role in Building

Redbud C

PRESENTER(S): Bob Berkebile or Stephen Hardy (BNIM Architects); Johanna Ekne (Environment Department, City of Malmo, Sweden), Daniel Wallach (GreensburgGreenTown).

MODERATOR: Karen Hollweg (NAAEE President 2008-2009)

*After a tornado destroyed 90% of Greensburg, Kansas, the city is incorporating sustainability principles in rebuilding. Across the world, Malmö, Sweden, is a model of sustainable urban development. Join us to learn about these communities and how cities can be laboratories for environmental education.*

HANDS-ON PRESENTATION | 9:30 AM - 11:15 AM

## Building and Using Classroom-Based Wind Turbines NF, PK2

Cedar

PRESENTER(S): Michael Arquin (Kidwind Project)

*Learn how to build, test, and experiment with classroom-sized wind turbines. See how simple and inexpensive it is to introduce your students to this rapidly growing energy resource.*

## Communications Part 1: Developing Your Strategic Communications Plan

Grand Eagle Ballroom A

PRESENTER(S): Garry Enns (NAAEE Communications Committee Chair), Jane Eller (Kentucky Environmental Education Council), Sue Bumpous (North American Association for Environmental Education), Linda Rhoads (EE Association of Oregon), Donny Roush (The Odyssey School)

*This session will explore why a strategic communications plan is important, how to get started, and how to develop and implement a communication plan that helps your environmental organization reach its goals. How does being an environmental organization impact your communication?*

## Conservation Seeds: A Comprehensive Early Childhood Conservation Education Program NF, PK2

Grand Eagle Ballroom F

PRESENTER(S): Sherri Griffin (Central Methodist University), Regina Knauer (Missouri Department of Conservation)

*Adults, like young children, learn best when they are actively involved and when discovery is fun. Experience hands-on activities designed to heighten student awareness of nature and conservation, to stimulate children's natural "sense of wonder," and to make discovery fun.*

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## Developing an EE Certification Program for Your State, Region, or Province

Osage

PRESENTER(S): André Walker Bravo (Utah Society for Environmental Education), Tom Marcinkowski (Florida Institute of Technology), Brenda Weiser (Environmental Institute of Houston), Libby Wilcox (Office of Environmental Education)

*If you're interested in organizing a certification program, this session is for you. We will focus on the basic steps regarding EE Certification including why a program is important to the profession, who should be certified, and how to get started.*

## Expressing the Relationship between Movement and Nature through Dance DV, NF, PK2

Walnut

PRESENTER(S): John Shortt (Recycled Music)

*Various dance forms will be used as a way of expressing a relationship between movement and nature. This session is another element of the 2008 arts grant from the Albert I. Pierce Foundation.*

## Finding and Involving Environmental Justice Communities DV, NF, RE

Maple

PRESENTER(S): David Ruble (VA DEQ)

*EE practitioners will learn how to locate and involve EJ Communities in environmental decision-making and EE programs through the application of existing state frameworks of identifying EJ communities, conducting needs assessment, and cultivating grass-roots community involvement.*

9:30 AM - 11:15 AM

## Guidelines Trainers' Bureau Meeting

Chisholm

PRESENTER(S): Bora Simmons

*This is a working meeting for members of the Guidelines Trainers' Bureau. By invitation only.*

**HANDS-ON PRESENTATION | 9:30 AM - 11:15 AM**

## Ready, Set, Engage!: A Conservation Education Toolkit NF

Cypress B

PRESENTER(S): Mary Ford (National Audubon Society), Judy Braus (National Audubon Society), Melissa Hopkins (National Audubon Society)

*Do you want to use education to achieve conservation goals? Do you want to better understand the value of education as a conservation tool? Come to this session to experience the EETAP-funded Ready, Set, Engage! conservation education resources.*

## Staking Your Claim: Finding a Place in the Field

Grand Eagle Ballroom H

PRESENTER(S): Jon Berg (University of Florida), Nichole Braun, Preethi Mony (Ohio State University)

*Are you a student or young professional who is having difficulty finding your way? Learn strategies to identify your niche and work together to plot a course. Our experienced planners will help you design plans to implement when you return home.*

## The Camera as a Way of Connecting People to the Environment DV, NF, PK2, SL

Birch

PRESENTER(S): Harry Spillman, Debra Spillman (Spillman Photography)

*Professional photographers who have been capturing NAAEE conference images for three years will show how to take photos that inspire people to protect the environment. Bring your camera! Your photos could end up in the conference closing slide show.*

**ROUNDTABLE DISCUSSION | 9:30 AM - 11:15 AM**

## A Critical Pedagogy of Place: Rethinking Place-based Education PK2

Cypress A

PRESENTER(S): Lana Zimmer (Saint Joseph's College)

*This session aims to provide a new dimension to place-based pedagogy by melding several ecological traditions within critical theoretical frameworks. With a critical pedagogy of place, the local has the capacity to unite schools and communities for greater ecological awareness and social justice.*

## Buddhist Ethics and Teachings: From International Appeals to the Classroom PK2

Cypress A

PRESENTER(S): Quincy Spurlin (University of New Mexico)

*Explore how the Manifesto 2000 and the Earth Charter exemplify Buddhist precepts and teachings of interconnectedness, compassion, and mindful consumption. Discover how these critical ethics can be integrated into environmental education for teachers, transforming their minds and actions.*

## Developing Pre/Post Activities to Meet Teacher and Funder Needs NF

Cypress A

PRESENTER(S): Jennifer Seitz (University of Florida), Kimberly Thurman (University of Florida)

*Teachers prefer to incorporate programs that best fit into their lesson plans. Funders want proof that your program is successful with youth. This session will provide tips and resource examples for building your program's success and meeting everyone's needs.*

## Education in a Free Society: What's Possible? NF

Cypress A

PRESENTER(S): Seari Miller (Earth Day Network)

*This open conversation seeks to engage individuals on imagining education in a free society. What's possible? How do we get there? What hinders us? From Dewey, Freire, and finally Illich, this exploratory conversation will engage participants in the creative process.*

## Exploring Environmental Issues with High School English Learners DV, SNL

Cypress A

PRESENTER(S): Kay Antunez de Mayolo (CA Dept of Forestry and Fire Protection), Abby Ybarra (EE Consultant)

*Involving high-school-age English learners in community-based environmental issues can both develop their civic engagement and strengthen their English language skills. We will share insight on how to choose and evaluate teaching strategies to help engage and advance literacy and language development skills with a special focus on immigrant youth.*

## **Influence of Foundational EE Literature on Practitioners' Understanding of Conservation and Environmental Education RE**

Cypress A

PRESENTER(S): Julie Ernst (University of Minnesota Duluth), Joan Kwako (University of Minnesota Duluth)

*Learn about an action research project conducted in a graduate-level EE course, investigating the influence of foundational EE literature on practitioners' understanding of the definition of EE and its relationship to similar terms, such as conservation education, outdoor education, and sustainability education.*

## **Infusing EE into Pre-service Education at the University of Montana PK2**

Cypress A

PRESENTER(S): Fletcher Brown (U of Montana)

*This presentation describes the initial efforts at the University of Montana that provide pre-service teachers with the content and experiences to meet the NPEE guidelines for teachers and the bases for eventual NCATE accreditation for the teacher education program.*

## **Kansas Water Celebrations: A Roundtable-Chair Tour NF**

Cypress A

PRESENTER(S): Melissa Arthur (Kansas Association for Conservation & Environmental Education)

*Discover how a small group of grassroots water education event organizers grew into a statewide network that strengthens collaboration among governments, agencies, businesses, nonprofits, communities, and schools to address locally-specific water education needs with over 40 annual water celebration events.*

## **Leave No Family Inside: Bringing Families Together in the Outdoors NF, RE**

Room: Cypress A

PRESENTER(S): Emily Hill (Leave No Family Inside Project), Karen Dostal (Boston School Forest)

*From "Leave No Trace Family Camp" to "Geocaching and Questing," experience how this series of family-oriented, place-based outdoor educational programs influences adult participants' environmental sensitivity. Receive a "Leave No Family Inside" Guidebook for family program development information and inspiration!*

## **Lesson Plan Kits for Community Environmental Education NF, PK2, SL**

Cypress A

PRESENTER(S): Mary Strauss

*Lesson plan kits are excellent tools to bring environmental education topics into the formal and non-formal setting. Learn about one local government's award-winning kits and how to produce something similar.*

## **Partnering with Parents to Bring Nature Home**

Cypress A

PRESENTER(S): Kathryn Navin (Plains Conservation Center), Vicki Bohling (The Family Center, Forest Lake Area Schools)

*Encouraging and equipping busy parents to make early connections to nature with their children is an important, but sometimes daunting, task. This discussion will support an exchange of ideas related to prohibitive factors and counteractive strategies that challenge and inspire the parent-child-nature bond.*

## **Professional Development Needs for Engaging Culturally Diverse Audiences DV, NF**

Cypress A

PRESENTER(S): Augusto Medina (EETAP), Alison Cordie (University of Wisconsin-Stevens Point)

*Find out about the newest online course the University of Wisconsin-Stevens Point is offering. Talk informally with the course instructor, review the syllabus, suggest improvements, and share your own professional development needs for engaging culturally diverse audiences.*

## **Pulling Strings: Tying Together Conservation Education and Puppetry**

Cypress A

PRESENTER(S): Heather Nisbett-Loewenstein (StoneLion Puppet Theatre)

*Join with Artistic Director Heather Loewenstein from StoneLion Puppet Theatre (Kansas City, MO) to discuss the pros and cons of supporting your conservation message with the art of puppetry or live performance; operational benefits, educational benefits, and challenges of production.*

## **Reorienting University Education to Address Sustainability**

Cypress A

PRESENTER(S): Rosalyn McKeown (Portland State University)

*What does it mean to reorient university education to address sustainability? It means changing curriculum, programs, policies, and practices across the university. This roundtable focuses on reorienting academic programs in terms of content and pedagogy.*

## **Spirituality and Environmental Education**

Cypress A

PRESENTER(S): Deborah Matlock (Boulder Open Space and Mountain Parks)

*What role does spirituality play in environmental education? How can we as EE practitioners be sensitive to and inclusive of people's diverse spiritual beliefs in our programs? Come join the discussion, share ideas, and explore this important topic.*

## **Strengthening Educational Capacity: An International Collaboration for Science and Conservation NF, PK2**

Cypress A

PRESENTER(S): Meg Domroese (American Museum of Natural History)

*A new guide provides educators in the Bahamas with scientific information and engaging, hands-on activities to incorporate marine conservation into their curriculum. Development of this resource and associated training resulted from an international collaboration among scientists and educators.*

## **Thinking Skills and Habits of Mind in Energy Education PK2**

Cypress A

PRESENTER(S): Rita Hagevik (The University of Tennessee)

*The infusion technique for teaching thinking and science is being used in US schools and in other countries. A unit on alternative energy will be used to demonstrate the technique and the strategies with specific examples from classrooms.*

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### African Spirituality and Conservation NF

Grand Eagle Ballroom C  
 PRESENTER(S): Ian Signer (EcoEd)

*The first people walked with the wildlife of Africa. Today, the continent continues to host some of the most spectacular nature on Earth. Why? Part of the answer lies in traditional spiritual practices that bind people to the landscape.*

### An Environmental Theology for the 21st Century

Grand Eagle Ballroom C  
 PRESENTER(S): Gary Hulett

*Are traditional Western metaphysical and theological systems appropriate to meet future environmental challenges? Process theology, portraying an ecological, inter-related, dynamic and holistic universe, in which all entities are intrinsically valuable, will be presented as an alternative to conventional Western theology.*

### Using Community Based Social Marketing in Water Conservation School Programs NF, RE

Santa Fe  
 PRESENTER(S): Richard Jurin (University of Northern Colorado), Michael Kimball (University of Northern Colorado)

*Empathy is a combination of psychological factors that promote broad community alliances to resolve problems. But making empathy work requires an understanding of what it is that needs promoting and the barriers that act against it (antipathy and apathy).*

### Create and Find Great Stuff through EE Resource Reviews

Oak  
 PRESENTER(S): Lori Mann, Ali Goulstone Sweeney (Colorado Alliance for Environmental Education)

*The EE Resource Reviews program can help you find or develop environmental education resources that best reflect the Environmental Education Materials: Guidelines for Excellence. Learn how to submit resources for review and how to use the online directory of resources.*

### Energizing Urban Learning: Urban Ecology Center Case Study DV, NF

Stimson  
 PRESENTER(S): Joey Zocher (Urban Ecology Center)

*With many renewable energy features including solar panels and a grey water system, the Urban Ecology Center in Milwaukee, WI, promotes urban environmental education. Over 15,000 student visits annually makes this center an innovative example of walking the walk.*

### Environmental Education Summer Day Camp for Urban Youth Grades 3-8 NF, PK2

Grand Eagle Ballroom B  
 PRESENTER(S): Brenda McMurphy (Topeka Public Schools USD 501)

*Conservation and water quality in Kansas is the focus of our summer environmental education day camp. An overview of our program, serving 300 urban students, and involving 11 staff, will be shared to inspire other communities to promote environmental education.*

### "Look Before You Leap": Assessing Education Providers When Forming a Collaborative Approach to Conservation NF, RE

Redbud A  
 PRESENTER(S): Ashley Dayer (Klamath Bird Observatory), Rick Bonney (Cornell Lab of Ornithology)

*Upon initiating an effort among bird educators to influence conservation, an assessment of current approaches and perceived needs was conducted. The results provide a model for using research to define an approach for enhancing educators' effectiveness in achieving conservation outcomes.*

### Outdoor Wildlife Learning Sites (OWLS) in Kansas PK2

Grand Eagle Ballroom E  
 PRESENTER(S): George Potts (Kansas Department of Wildlife and Parks)

*The Kansas Department of Wildlife and Parks provides OWLS grants up to \$2000 for schools to develop features that will help increase student exposure to native wildlife and plant communities. This presentation is a history of the success of the OWLS program.*

### The Green Path: A Thai-US Partnership for Mindful Education

Grand Eagle Ballroom D  
 PRESENTER(S): Jill Korach (Miami University/Project Dragonfly), Lynne Myers (Miami University), Chris Myers (Miami University)

*Natural connections between Buddhism and conservation are part of a broader investigation into how humans find meaning and value in the environment. Case studies from Earth Expeditions' Thai partnership demonstrate how educators are adapting Buddhist practices in US learning environments.*

### Using Community Based Social Marketing in Water Conservation School Programs NF, RE

Grand Eagle Ballroom G  
 PRESENTER(S): Joanne Toms (City of Glendale Water Conservation Office)

*This presentation will feature key components in the development, implementation, and evaluation of a new water conservation school program, including detailed information on the use of community-based social marketing techniques and results from the pilot group.*

10:00 AM - NOON

### Community Service Project

See Page 20 for details.

### Using Community Based Social Marketing in Water Conservation School Programs NF, RE

Santa Fe  
 PRESENTER(S): Carey Stanton (National Wildlife Federation)

*National Wildlife Federation is committed to creating developmentally appropriate resources about the causes of, and remedies for, global warming. With growing public enthusiasm for addressing global warming, some K-12 education efforts may not accord with rigorous environmental education practice guidelines.*

### Energy WISE: Wisdom is Saving Energy in Kenton County Schools SL

Room: Stimson  
 PRESENTER(S): Karen Reagor (The NEED Project)

*Energy WISE (Wisdom Is Saving Energy) is a program developed by the Kenton County School District in Northern Kentucky to educate building occupants and the community about energy efficiency while reducing energy consumption in our schools.*

### Want to make a snack that is both good for you and the planet? In the FRESH program at the High School for Environmental Studies, students explore the environmental and health impacts of everyday cuisine and the multifaceted United States food system.

Oak  
 PRESENTER(S): Dylan Hass (Friends of the High School for Environmental Studies)

*Want to make a snack that is both good for you and the planet? In the FRESH program at the High School for Environmental Studies, students explore the environmental and health impacts of everyday cuisine and the multifaceted United States food system.*

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## Lessons Learned: Creating an Online Place-Based

### EE Curriculum DV, NF, PK2, SL

Grand Eagle Ballroom B

PRESENTER(S): A. Michael Marzolla (UCCE, 4-H Youth Dev. & Master Gardener Program)

*Developing an online, place-based experiential EE curriculum that engages a diverse audience was a challenge. The presenter shares lessons learned from the development of AGUA PURA: Exploring Salmon and Steelhead in California Communities, a multi-disciplinary unit for non-formal educational settings and 6th grade classrooms.*

## Pioneering Critical Evaluation for Environmental Education in Yellowstone National Park NF, RE

Grand Eagle Ballroom E

PRESENTER(S): Ana Houseal (University of Illinois at Urbana-Champaign), Ellen Petrick (National Park Service), Bob Fuhrmann (National Park Service)

*Expedition: Yellowstone! has provided in-depth, residential education to thousands of students and teachers since 1985. The University of Illinois at Urbana-Champaign and the National Park Service combine forces in an evaluation that offers vital insight on program effectiveness and best practice.*

## Preaching What We Should Practice: Environmental Literacy and Transformative Politics in the Black Church DV, NF

Grand Eagle Ballroom D

PRESENTER(S): Marcia Owens (Florida A&M University)

*This presentation puts two action-based models into conversation, namely environmental literacy and transformative politics, in the context of the Black Church, and explores their integral roles in the bridging of the gaps between theology and environmental education, theory and praxis.*

## Voluntary Conservation and the Education of Young People: Insights from Rural England RE

Grand Eagle Ballroom G

PRESENTER(S): Robert Fish (Centre for Rural Policy Research), Michael Leyshon (University of Exeter)

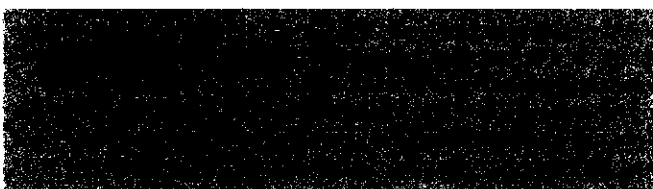
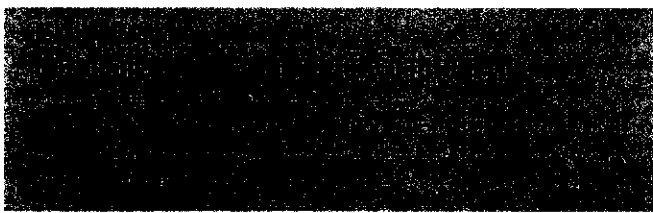
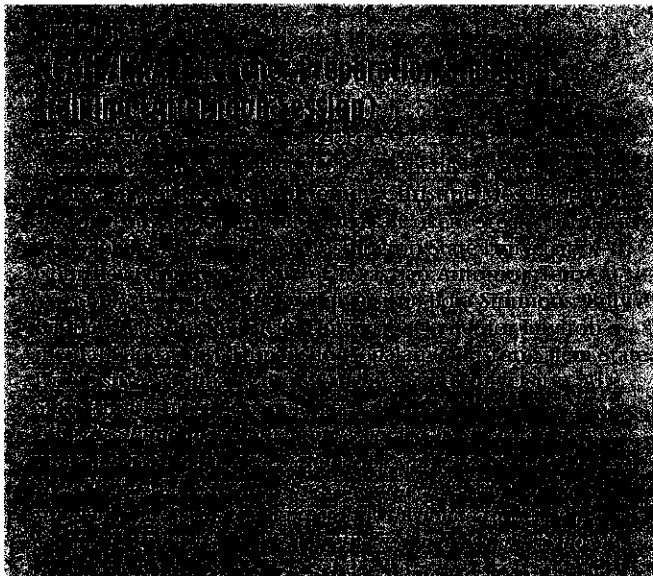
*This presentation explores the role that conservation education may play in fostering the aspirations of young people to live and work in the UK countryside. It assesses how far these educational programs meet the needs of sustainable rural communities.*

## Wild about Wild Research: Evaluation toward Building a New Zoo Experience RE

Redbud A

PRESENTER(S): Joe Heimlich (The Ohio State University), Kerry Bronnenkant (Institute for Learning Innovation), Christopher Meyers (Miami University), Jamie Anzano (Miami University/Project Dragonfly)

*Wild Research attempts to engage zoo visitors in interactive, real-time research activities to enhance, extend, and create a more meaningful visit for families. This presentation will share the complex and interesting evaluation for this zoo and university partnership.*



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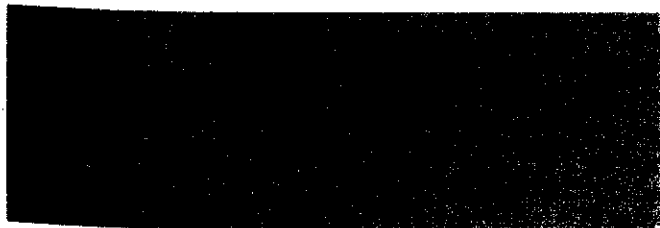
TRADITIONAL PRESENTATION | 2:00 PM - 2:45 PM

## Back to the Garden: Nurturing a Spirit of Belonging NF

Grand Eagle Ballroom C

PRESENTER(S): Elise Sheffield (Boxerwood Education Association)

*What might a religious service and a standards-based elementary EE program have in common? Using Boxerwood Nature Center (VA) as a model, we consider six elements common to religious worship that also nurture a sense of ecological belonging among children.*



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