

Discovering the Science of the Environment
IUPUI Center for Earth and Environmental Science
Professional Institute
June 27 – July 1, 2011
Eagle Creek Park Earth Discovery Center



Discovering the Science of the Environment

IUPUI Discovering the Science of the Environment (DSE) is an environmental science education program engaging students at school ground natural areas and outdoor learning environments. The program provides specially designed curriculum and state of the art technology resources to help educators utilize school ground natural areas to instruct students in an interactive, inquiry-based environment. Educational program delivery with a mobile science trailer, educator professional development, and a web interface provide unique opportunities to raise the level of environmental awareness and science aptitude for Indiana youth.

Professional Institute

The DSE Professional Institute guides central Indiana teachers in the establishment, maintenance, and use of outdoor laboratories on school sites and in the incorporation of environmental education through multiple subject areas. Participating teachers will receive the Earth Partnership for Schools interdisciplinary curriculum, which has been correlated to Indiana State Academic Standards for Science, Math, Language Arts, and Social Studies and customized for Indiana natural areas as well as curriculum books associated with Project WET. Guest speakers and field trips provide insight into the advantages of outdoor laboratories and the benefits of environmental education.

Upon Completion of the Institute:

- School teams are eligible to apply for grant funding through the Dr. Laura Hare Charitable Trust – up to \$10,000 per proposal – to implement outdoor lab plan
- Receive on-site program support through DSE via visits with our mobile technology trailer and related equipment support
- Each individual will receive a certificate to document participation for Professional Growth Plan Points for license renewal

Registration and Logistics

- There is no cost to attend the institute.
- Team application packets are required for entry: **Applications Due: April 29, 2011**
- Institute targets teams of 4th through 9th grade teachers within the nine county Central Indiana region (Boone, Hamilton, Madison, Hendricks, Marion, Hancock, Morgan, Johnson, and Shelby).
- Registration priority will be given to teams of three to five teachers from the same school that have completed application packets.
 - Participating teams will develop a plan for program implementation within their school during the institute.
 - Teams will collaborate with CEES to implement their plans in the subsequent academic year.

For questions please contact Kara Salazar, CEES Education Outreach Coordinator, at 317-278-8585 or salazark@iupui.edu or visit the CEES web site at: www.cees.iupui.edu.



IUPUI Center for Earth and Environmental Science

**Summer Institute
June 27 – July 1, 2011
Eagle Creek Park Earth Discovery Center
<http://www.cees.iupui.edu/>**

TEACHER APPLICATION

Each team must complete one teacher application and provide the attached letter of support from an administrator. Please submit the completed forms to the IUPUI Center for Earth and Environmental Science. Contact information should be printed or re-typed and attached. Standard mail, fax, or email are all accepted for submission. Forms can be downloaded from www.cees.iupui.edu. **Applications Due: April 29, 2011**

Contact Information:

Standard Mail: IUPUI CEES, C/O Kara Salazar, 723 West Michigan Street, SL 118, Indianapolis, IN 46202

Phone: 317-278-8585

Fax: 317-274-7966

Email: cees@iupui.edu

School Address (Include School Name)

_____	Administrator Name _____
_____	Grade Levels _____
_____	School Web Site _____
_____	School Phone _____

TEAM CONTACT INFORMATION

Name 1

_____	Curriculum Area(s) _____
Home Address	Grade(s) Taught _____
_____	Years of Teaching Experience _____
_____	Home Phone _____
_____	E-mail Address _____

Name 2

Home Address

Curriculum Area(s) _____

Grade(s) Taught _____

Years of Teaching Experience _____

Home Phone _____

E-mail Address _____

Name 3

Home Address

Curriculum Area(s) _____

Grade(s) Taught _____

Years of Teaching Experience _____

Home Phone _____

E-mail Address _____

Name 4

Home Address

Curriculum Area(s) _____

Grade(s) Taught _____

Years of Teaching Experience _____

Home Phone _____

E-mail Address _____

Name 5

Home Address

Curriculum Area(s) _____

Grade(s) Taught _____

Years of Teaching Experience _____

Home Phone _____

E-mail Address _____

Instructions: Please meet in your team and collectively decide on group responses to the questions below and attach in a word document, not to exceed three pages, double spaced with twelve point font.

Question 1: Summarize why your team would like to participate in the IUPUI Discovering the Science of the Environment Summer Institute.

Question 2: What kind of school ground outdoor laboratory site does your school currently have or would like to create? (Please list site features such as river, wetland, pond, prairie, native plant garden, etc).

Question 3: How do members of the team currently teach outdoor environmental science education and/or how does the team envision teaching outdoor environmental science?



Dear School Administrator:

A team of 3-5 educators from your school is applying to participate in the Indiana University - Purdue University Indianapolis Discovering the Science of the Environment Summer Institute, held from **June 27- July 1, 2011** at the Eagle Creek Park Earth Discovery Center. The institute will assist teachers in the establishment, maintenance, and use of outdoor laboratories on school sites and provide several practical examples and tools that teachers can incorporate into their environmental science education. This workshop will be appropriate for schools that have existing outdoor labs / school ground natural areas or for those who would like to develop outdoor learning programs. Participating teachers will receive the nationally recognized Earth Partnership for Schools interdisciplinary curriculum, which has been aligned to address Indiana State Academic Standards for Science, Math, Language Arts, and Social Studies and customized for Indiana natural areas as well as curriculum and training associated with Project WET (Water Education for Teachers) among other materials. Participants will also have the opportunity for additional on-site program support and outdoor laboratory planning through the IUPUI Discovering the Science of the Environment Program and through free site visits with our mobile science and technology trailer.

There is no cost for educators to attend the institute. Participants have the opportunity to register to receive three graduate credits from either the School of Education or the Department of Earth Sciences at IUPUI. Upon completion of the institute, each participating team will be eligible to apply for grant funding from the Dr. Laura Hare Charitable Trust to fund outdoor laboratory program activities related to the team action plans developed during the institute.

We ask that the following requirements be met for school program success:

1. The school commits to the development of a native planting at the school (or the enhancement of existing plantings) and its subsequent use as a teaching tool in keeping with the school's long-range plan, professional development plan, and mission.
2. Schools will form an ongoing outdoor laboratory team for planning, maintenance, and to infuse and integrate the outdoor learning program into the school's curriculum. Recommended members include the DSE Summer Institute team as well as school administrator(s), parents/guardians, students, custodial staff, and / or community partners for education and/or landscaping.
3. At times your school may be asked to participate in program evaluations and/or to provide classroom and student assessments to the professional evaluation team from the School of Education at IUPUI. Consent forms and evaluation descriptions will be provided.

We are very excited about this opportunity and look forward to working with your teachers and school. If you have any questions or concerns, feel free to contact me at cees@iupui.edu / 317.274.7154.

Sincerely,



Dr. Lenore P. Tedesco
Director, Center for Earth and Environmental Science
Associate Professor, Department of Earth Sciences
Indiana University-Purdue University Indianapolis

I have read the above and agree to the requirements of the program:

_____ (signature)

_____ (title)