



**ILLINOIS  
COLLEGE**

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**International Symposium on  
Science, Sustainability and  
Teaching**

Illinois College  
Jacksonville, Illinois

March 18 & 19, 2016

*Welcome to the second International Symposium  
on Science, Sustainability and Teaching  
at Illinois College!*

*This Symposium is made possible by an Implementation Grant from the Henry Luce Foundation's Luce Initiative on Asian Studies and the Environment (LIASE). We are grateful for the Luce Foundation's support of our growing connections between Asian studies and the sciences at Illinois College.*

*We would also like to thank our partner institutions in Japan: Ritsumeikan University and Kanazawa University.*

*We hope you find the Symposium stimulating and engaging, and encourage you to explore some of the other activities listed in the back of this program.*

*Laura Corey*

*Associate Professor of Biology, Illinois College  
Coordinator, Forging New Collaborations on Environment and Sustainability Grant*



## Schedule - Friday, March 18

4:00 p.m. Panel discussion: Incorporating Asian Environmental Studies Issues into the Science Classroom - Parker Science Hall 106.

*Pat Kihne, Mathematics, Laura Corey, Biology, Jason Price, Environmental Studies, Elizabeth Rellinger-Zettler, Psychology*

5:00 p.m. Opening reception and Poster Session – Parker Science Hall Rotunda

6:00 p.m. Banquet - Cummings Dining Hall

*Coffee, tea, and dessert will be available outside Kirby Learning Center Room 006, beginning at 7 p.m.*

7:30 p.m. Welcome – Dr. Adam Porter, Dean of the Faculty, Illinois College



Dr. Mikio Nishizawa,  
Professor of Biomedical Sciences,  
College of Life Sciences,  
Ritsumeikan University.

*Post-transcriptional regulation of inducible genes by natural antisense transcripts and involvement of herbal medicine* - Kirby Learning Center Room 006 - **CONVO**

## Poster Presentations - Friday, March 18

Parker Science Hall Rotunda

Illinois College Summer 2016 Group Research Trip to  
Japan - Student Projects

*Faculty Mentors: Mioko Webster and Kevin Klein*

- The Energy Life Cycle of Food Production and Consumption - *Rachel Buente*
- The Economic and Environmental Implications of Fukushima Daiichi Nuclear Disaster. *Victoria Wynecoop, Julia Mendez, and Tuan Le Abn*
- Unconventional Gas Extraction in Japan. *Kristen Wiley*
- Green Transportation: Bicycles in Japan. *Dayana Vazquez Buquer*
- Decreasing the Populations of Nonindigenous Species in Lake Biwa, Japan. *Jill Friedrich*
- The impact of human activity on Lake Biwa and the need for water management. *Sam Welbourne*

*These students and their faculty mentors will travel to Japan this summer to carry out their research projects.*

## Poster Presentations - Friday, March 18

Parker Science Hall Rotunda

Identification of orchid mycorrhizal fungi from  
Madagascar

*Kaz Yokoya<sup>1</sup>, Lawrence W Zettler<sup>2</sup>, Jonathan P Kendon<sup>1</sup>,  
Martin I Bidartondo,<sup>31</sup> Andrew L Stice<sup>2</sup>, **Shannon  
Skarha<sup>2</sup>, Laura L Corey<sup>2</sup>, Audrey C Knight<sup>2</sup>, Viswambharan  
Sarasan<sup>1</sup>***

<sup>1</sup>Royal Botanic Gardens, Kew, United Kingdom

<sup>2</sup>Illinois College, Jacksonville, IL

<sup>3</sup>Imperial College London, United Kingdom

Measuring Genetic Diversity of an Underutilized  
Tropical Fruit Tree Crop: *Artocarpus odoratissimus*

**Matt Murphy<sup>1</sup>, Elliot Gardner<sup>2</sup>, Nyree Zerega<sup>2</sup>**

<sup>1</sup>Illinois College, Jacksonville, IL

<sup>2</sup>Northwestern University, Evanston, IL

Ongoing Work to Prepare Muscone

**Tuan Le Anh** and Brent D. Chandler

Illinois College, Jacksonville, IL

Developing and Publishing a Japanese-English Visual  
Dictionary for the Laboratory

**Laura Corey<sup>1</sup>, Danielle Trierweiler<sup>1</sup>, Hiroko Uchida<sup>2</sup>**

<sup>1</sup>Illinois College, Jacksonville, IL

<sup>2</sup>Ritsumeikan University, Kusatsu, Shiga, Japan

## Schedule - Saturday, March 19

*Coffee, tea, fruit, and baked goods will be available outside Kirby Learning Center Room 006 beginning at 8:30 a.m.*

**9:00 a.m. Dr. Andy Moore,**  
Associate Professor of Geology  
and Associate Academic Dean,  
Earlham College.

*How often do tsunamis happen?  
Establishing a tsunami history using the  
geological record - Kirby Learning  
Center Room 006 - CONVO*



**10:00 a.m. Student Presentations - Kirby Learning  
Center Room 006**

**Ms. Ai Aoki,** Kanazawa University. *Some  
Observations in Phnom Kulen National Park in  
Cambodia - An Environmental and Cultural Sanctuary in  
the Angkor World Heritage site*

**Ms. Airi Fujii,** Ritsmeikan University. *The effects of  
the herbal medicine Coptis Rhizome on the expression of  
inducible nitric oxide synthase in interleukin 1 beta-treated  
hepatocytes*

**11:00 a.m. Dr. Shinji Tsukawaki**, Professor of Sedimentary Geology, Institute of Nature and Environmental Technology, Kanazawa University.



*An Environmental Crisis in the Angkor World Heritage of Cambodia – A Complex of Natural Environment, Cultural Heritage and Local Society.* Kirby Learning Center Room 006 – **CONVO**

**12:00 p.m. Lunch** - Cummings Dining Hall

*Coffee, tea, and dessert will be available outside Kirby Learning Center Room 006 beginning at 1:15.*



**1:30 p.m. Dr. Dennis Whigham**, Senior Research Plant Ecologist, Smithsonian Environmental Research Center.

*Conservation Efforts in Japan – Using Science to Help Citizen-based Initiatives.* Kirby Learning Center Room 006 - **CONVO**

## Schedule - Saturday, March 19, Continued

2:30 p.m. **Dr. Larry Zettler**, Professor of  
Biology, Illinois College.



*The Illinois College Orchid Recovery Program: a model for international research collaboration with undergraduate students.* Kirby Learning Center Room 006.

3:15 p.m. Discussion: Establishing Effective International Undergraduate Research Programs. Kirby 110.

*Steven Gardner, Modern Languages – Spanish*

*Larry Zettler, Biology*

*Laura Corey, Biology*

4:00 p.m. Symposium closes.

***Please recycle your name badge!***

*As you leave, please hang your name badge on the easel outside Kirby Learning Center Room 006.*



## Views of Japan Trip in May 2017



### **for Illinois College Alumni and Ritsumeikan IEP Participants!**

Come experience the beauty and mystique of Japan with Illinois College President Barbara Farley as we celebrate 30 years of partnership with Ritsumeikan University in Kyoto, Japan! This Illinois College exclusive two week tour, arranged by SmarTours, will include:

- Sights of Tokyo and surrounding area (including Mount Fuji!)
- Takayama, delightful town nestled in the Japanese Alps
- Kanazawa, home of the renowned Kenrokuen Garden
- Kyoto with its many temples and shrines; special activities hosted by Ritsumeikan University
- Hiroshima and the Peace Memorial Museum
- And much more!

*More information can be found online:  
<http://www.ic.edu/alumni>*



# Forging New Collaborations on Environment and Sustainability

Funded in part through a LIASE grant from  
The Henry Luce Foundation



Environment



ENGAGE



UNDERSTAND



SHARE



Science



JAPAN

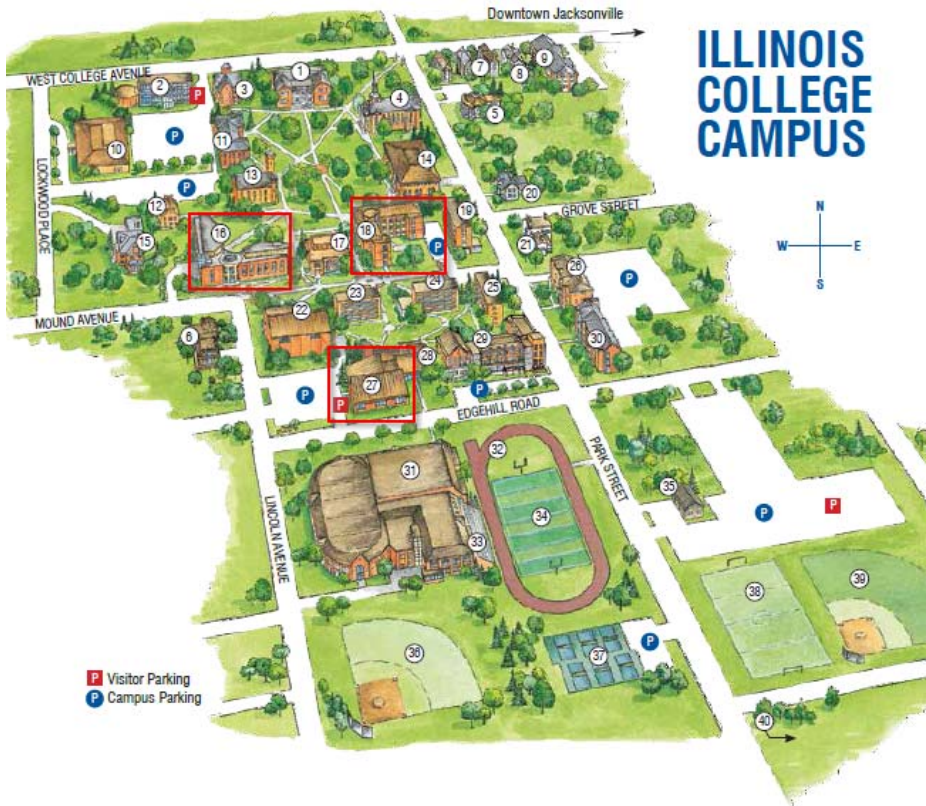


EXPLORE



# Forging New Collaborations on Environment and Sustainability Grant Activities 2015-2018

- Research experiences for students:
  - Group Research Trip with faculty – three-week trips, Summer 2016 & 2018
  - Research Abroad Program – ten-week individual research experience – Summers 2016, 2017, and 2018
  - Support for partnership between Illinois College Japanese-fluent faculty and science faculty to supervise student research in Japanese
- Language-intensive summer internships (Summer 2017 & 2018)
- Faculty travel to partner institutions
- Curriculum Development Accountability Group: Summer 2015 & 2017
- International Symposia on Science, Sustainability, and Teaching: March 2016 & 2018
- Language and cultural learning for Illinois College faculty and staff
- Graduate Internships – Ritsumeikan University graduate students visit Illinois College in August and September



1. Tanner Hall  
Office of Admission
2. Crispin Hall
3. Whipple Hall
4. Rammelkamp Chapel
5. Octagon House
6. Alumni House/  
Office of Development
7. German House
8. Spanish House
9. College Apartments
10. McGaw Fine Arts Center
11. Crampton Hall
12. Beecher Hall
13. Sturtevant Hall

14. Schewe Library
15. Barnes House
16. Parker Science Building
17. Baxter Hall  
The Coffee Shop
18. Kirby Learning Center
19. Ellis Hall
20. Fayerweather House
21. David A. Smith House
22. Memorial Gymnasium
23. Gardner Hall  
Public Safety
24. Turner Hall
25. Pixey Hall
26. Munding Hall

27. Cummings Dining Hall
28. Caine Student Center
29. Abraham Lincoln Hall  
IC Store
30. Greene Hall
31. Bruner Fitness and Recreation Center
32. Ware Family Track
33. England Stadium
34. Green Athletic Field
35. Campus Services Building
36. Joe Brooks Baseball Field
37. Bellatti Tennis Complex
38. Soccer Field
39. Jessica Kamp Softball Field
40. Hoagland Field

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