GOOE-INeT International Summer School 2009
“Frontiers in Ecosystem Ecology of Northern Forest”

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Uryu Experimental Forest
Structure of promotion offices in the GCOE-IFES program

- Oversea research and student exchange
- INeT: International network and training
- GCOE-IFES
- Regional education and outreach
Why “International” and “Network”? 

International programs associated with Integrated environmental studies
Goals of INeT

- To foster students to plan and lead the future international and interdisciplinary research project
- To develop the research platform for integrated international field research programs
Action plans of INeT

- International summer school of field science for PhD students
- Planning and conducting of international research program on field science
- Collaboration with the existing programs such as Tohoku U-GCOE, ILTER, IGBP and GLP.
What are the key components of training for PhD students?

Proposal
- Review, Question, Hypothesis, Design, Method…..

Data collection
- Observation, Experiments, Instruments, Model…..

Synthesis
- Results, Discussion, Conclusion…..

Publication
- Paper, Report, Presentation…..

Communication and Discussion
Major focuses in the INeT training course

Proposal

Review, Question, Hypothesis, Design, Method……

Data collection

Observation, Experiments, Instruments, Model…..

Synthesis

Results, Discussion, Conclusion…..

Publication

Paper, Report, Presentation…..

Communication and Discussion
Current plan of summer school in 2009

Frontiers in Ecosystem Ecology of Northern Forest
- GCOE-INeT International Summer School 2009 -

• 14-21 June 2009
• Teshio, Nakagawa and Uryu experimental forests
• Lectures
• Poster session
• Field courses
• Group discussion

Organizing committee 2009
Venues of INeT summer school in 2009

Total area: 667 km²
Outline of INeT summer school 2009

• **Day 1** (Sapporo campus)
  – Guidance, Keynote lecture
  – Poster session

• **Day 2-6** (Uryu, Nakagawa and Teshio forests)
  – Field courses (observation, protocol, instruments)
  – Trainings of proposal preparation
  – Short lectures
  – Excursion

• **Day 7** (Sapporo campus)
  – Group discussion and presentation on literature review
Field courses

- Ecosystem structures and community dynamics
- Soil processes
- Biogeochemistry
- Carbon flux and cycling

Participants will learn research approaches, protocols and related instruments in each research site.
Training of proposal preparation

• Discussion and planning of the short research proposal on each topic of each field course
  – Theme
  – Research Question
  – Hypothesis
  – Approach

• Short presentation from each group
Literature review and group discussion

- Students have to prepare the literature review on each research topic before the arrival of the summer school.
- During the school, students will discuss and synthesis on the current findings and future strategy on each topic in each group (4-5 students)
- In final day, each group will make oral presentation on each synthesis. The organizing committee will recommend to submit review paper for successful group.

Example of the themes

(i) Changes of ecosystem biogeochemistry as affected by global warming.
(ii) Interrelationships between community structure and ecosystem processes.
(iii) Interactions between air pollution and climate change on ecosystem processes.
Call of international participants

• We announced the application documents though our web page.

• ILTER and GLP helped to call international candidates through their web pages and mailing list.
ILTER; International Long-Term Ecological Research Network

(Chair, Dr. Terry Parr, UK)

40 countries

Current key issues

i. Climate change
ii. Sustainable development
iii. Biodiversity and its sustainable use
iv. Sustainable use of resources and ecosystem management
v. Environmental hazards and disasters
GCOE-INeT International Summer School

filed under: East Asia-Pacific, training

"Frontiers in Ecosystem Ecology of Northern Forest"

Analyses of ecosystem processes across various spatial and temporal scales are essential to clarify ecosystem functions and services under global climate changes, air pollution, land-use changes and other anthropogenic and natural disturbances. This summer school provides unique opportunities for international and Japanese Ph.D students to learn field research methods. Students will also discuss current research findings and explore future directions for various research topics on ecosystem ecology. The main aim of the program is to encourage the participants to develop research projects that include international perspectives. The field training program will be conducted in Hokkaido University’s experimental forests that are included within the JaLTER (Japan Long-Term Ecological Research Network).

More information about this event...
Global Land Project (IGBP/IHDP)
GLP Sapporo Nodal Office

Vulnerability, Resilience and Sustainability of Land Systems
Call of international participants

- We announced the application documents through our web page.
- ILTER and GLP helped to call international candidates through their web pages and mailing list.

We received 16 applications (China, Malaysia, Philippine, Indonesia, Pakistan, India, Ukraine, Bangladesh, Australia, UK and Vietnam) for the capacity of 10 participants.
Next plan of summer schools during 2009-2012

Field stations of Hokkaido University

Upcoming theme would be:
- Land-Ocean ecosystem cascade
- Biodiversity & Ecosystem function
- Eco-biology in estuary and ocean
- Ecosystem modelling
Conclusion

• GCOE-INeT aims to foster the PhD students for planning and leading the international and interdisciplinary project.

• Field course, poster session, proposal training and the literature review will be conducted in the summer school.

• GCOE-INeT will plan further summer programs on different theme in different station and collaborate closely with the other programs such as Tohoku U-GCOE, ILTER and GLP.