**4th Annual
Field Course in Conservation Biology & Global Health:**

**At the Human-Environment Interface**

**TENTATIVE SCHEDULE**

**13-17 November 2015**

| **Day 1: 13 November 2015 at MSU** |
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| **Time** | **Duration** | **Events** |
| 08:30-08:45 | 15 mins | Registration |
| 08:45-09:00 | 15 mins | **Field course opening remark**Dean of Faculty of Environment and Resource Studies |
| 09:00-09:45 | 30 mins | **Introduction to the course****pre-course assessment test**Prof. Randall C. Kyes |
| 09:45-10:00 | 15 mins | Group Photo |
| 10:00-10:15 | 15 mins | Refreshment and coffee break |
| 10:15-12:00 | 1hr 45 mins | **Lecture: Overview: The Human-Environment Interface** Conservation Biology: An Introduction Threats to Biological Diversity  Global Health – An Introduction Risks to Human HealthProf. Randall C. Kyes |
| 12:00-13:00 | 1hr | Lunch |
| 13:00-14:45 | 1hr 45 mins | **Lecture: Field Study Methods** Observational Techniques & Field Awareness Field Study Technology – Geomatics (GIS, GPS, RS) Population Survey Methods Behavioral Sampling Methods Biological Sampling MethodsProf. Randall C. Kyes |
| 14:45-15:00 | 15 mins | Refreshment and coffee break |
| 15:00-17:00 | 2 hrs | **Field exercise:** Field equipment on MSU CAMPUS  GPS, Range Finder, Trap camera, Blow pipe,UAVProf. Randall C. Kyes |

| **Day 2: 14 November 2015 at MSU** |
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| **Time** | **Duration** | **Events** |
| 08:30-09:30 | 1 hr | **Lecture: Field Study Methods (cont.)**Prof. Randall C. Kyes |
| 09:30-10:45 | 1 hr 15 mins | **Lecture: Lotic Ecosystems and Aquatic Insect Sampling Methods** Dr. Pensri Kyes and Dr.Penkhae Thamsenanupap |
| 10:45-11:00 | 15 mins | Refreshment and coffee break |
| 11:00-12:00 | 1 hr | **Lecture: Wildlife Diversity of Thailand & Lao PDR** Assist. Prof. Dr. Tawatchai Tanee |
| 12:00-13:00 | 1 hr | Lunch |
| 13:00-14:20 | 1 hr 20 mins | **The Primates**: Classification, Behavior, Social Organization, Reproduction and DevelopmentProf. Randall C. Kyes |
| 14:20-15:20 | 1 hr | **Lecture: Management and Conservation Strategies**  Ecosystem Management (IBT, Protected Areas) Breeding Programs (Zoos, Captive, Natural Habitat) Rehabilitation/Reintroduction Programs Community Outreach Education ProgramsProf. Randall C. Kyes |
| 15.30-16.30 | 1 hr | **Leave FERS-MSU to Kosumphi Forest Park, Maha Sarakham Province** |
| 16.30-18.00 | 1 hr 30 mins | Unpack, shower and relax |
| 18.00-19.00 | 1 hr | **dinner** |
| 19.00-20.00 | 1 hr | **Light Trap Sampling (Mercury Vapor)** (Instructors) |
| 20.00-20.30 | 30 mins | **Summarizing Activity** |
|  |  | **Stay at Kosumphi Forest Park** |

Note: Snacks and drinks will be provided during the activities.

| **Day 3: 15 November 2015 at MSU and Kosumphi Forest Park** |
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| **Time** | **Duration** | **Events** |
| 07.00-08.00 | 1 hr | **Breakfast** |
| 08.00-09.30 | 1 hr 30 mins | **Lecture: Management and Conservation Strategies (cont.)** Aquatic Insects as Bioindicators of Lotic Ecosystems Dr. Pensri Kyes and Dr.Penkhae Thamsenanupap |
| 09:30-09:45 | 15 mins | Refreshment and coffee break |
| 09:45-10:45 | 1 hr | **Lecture: Management and Conservation Strategies** (cont.)Prof. Randall C. Kyes |
| 10.45-12.00 | 1 hr 15 mins  | Lecture: Global Environmental Issues and Sustainability •History: Global Environmental Issues •Sustainable Development  •Global Warming/ Climate Change - Ecological Effects; Challenges in Water Resources Management; Mitigation and Adaptation to Climate ChangeDr. Wichitra Singhirunnusorn |
| 12:00-13:00 | 1 hr | **Lunch** |
| 13:00-17:00 | 4 hrs | **Field Exercise at Kosumphi Forest Park:** Line transect sampling Behavior sampling method  Fecal collectionInstructors (Prof. Randall C. Kyes) |
| 17:00-18:00 | 1 hr | Refreshment break |
| 18.00-19.00 | 1 hr | **dinner** |
| 19.00-20.30 | 1 hr 30 mins | **Data Presentation** |
| 20.30-21.00 | 30 mins | **Summarizing Activity** |
|  |  | **Stay at Kosumphi Forest Park** |

Note: Snacks and drinks will be provided during the activities.

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| **Day 4: 16 November 2015 at MSU** |
| **Time** | **Duration** | **Events** |
| 07:00-08.00 | 1 hr | Breakfast |
| 08.00-09.00 | 1 hr | Human-Wildlife Interface Human-Wildlife Interaction and Conflict Human-Primate Conflict Risks to Primates (Conservation Medicine) Emerging Infectious Disease & Human Health RisksProf. Randall C. Kyes |
| 09.00-10.00 | 1 hr | **Lecture: Management and Conservation Strategies (cont.)** Fundamentals of Conservation GeneticsProf.Arunrat Chaveerach |
| 10:00-10:15 | 15 mins | Move to Kosumphisai Hospital |
| 10:15-11:45 | 1 hr 30 mins | **Visit Kosumphisai Hospital, Amphoe Kosumphisai** |
| 11.45-13:00 | 1 hr 15 mins | **Lunch**Leave Kosumphisai Hospital toMSU to the Holy Infant Jesus Roi-Et School**,** Roi-Et Province |
| 13:00-16:00 | 3 hrs | **Community Outreach Education Program at the Holy Infant Jesus Roi-Et School, Roi-Et Province** (Instructors) |
| 16.00-17.00 | 1 hr 45 mins | Leave Roi-Et Province toFERS-MSU |

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| **Day 5 : 17 November 2015 at MSU** |
| **Time** | **Duration** | **Events** |
| 08:30-10:00 | 1 hr 30 mins | Fecal Parasite AnalysisProf. Randall C. Kyes |
| 10:00-10:15 | 15 mins | Refreshment and coffee break |
|  | 30 mins | **Lecture: Human-Wildlife Interface (cont.)** Traditional knowledge of ethnomedicinal plantsAssist. Prof. Dr. Tawatchai Tanee |
| 10:15-12:00 | 1 hr 45 mins | Lecture: Human-Wildlife Interface (cont.)Issues in Global Health:  Health Concerns of the Local People  Medical Entomology: Aquatic Insects and Human Health  Biomedical Research & Translational ScienceProf. Randall C. Kyes |
| 12:00-13:00 | 1 hr | Lunch |
| 13:00-15:00 | 2 hrs | Issues in Global Health (Continued)Prof. Randall C. Kyes |
| 15:00-15:15 | 15 mins | Refreshment and coffee break |
| 15:15-16:00 | 45 mins | **Post-course assessment test****Closing and Presentation of Certificates** |