Valmiera Training Workshop
Draft Schedule – as of May 17, 2010

SATURDAY, AUGUST 21

7:30 breakfast, check-in, registration

9:00 welcome from
- host university
- Greg Taff
- Garik Gutman

9:30 Dr. Zanda Peneze, Faculty of Geography and Earth Sciences, University of Latvia
- Lecture: "Land use and landscape changes and factors
  influencing them in Latvia during the 20th-21st centuries" (1 hour).

10:30 break
10:45 Dr. Olga Krankina, Associate Professor & Sr. Researcher, Oregon State University, Dept of Forest Ecosystems and Society
- Lecture and discussion session on new approaches to land cover mapping, change monitoring, and human impact in the era of satellite observations (1.5 hours).

12:15 lunch

2:00 excursion - dinner included (canoe trip down Almata River in Northern Vidzeme Biosphere Reserve with guide, Andris Urtans, Deputy Director of Northern Vidzeme Biosphere Reserve, to discuss local/regional land-use changes)

SUNDAY, AUGUST 22

7:30 breakfast

8:30 Dr. Garik Gutman, NASA Program Director, NASA – Landcover Landuse Change Program
- Lecture: "Optical Remote Sensing: Basics, Data Processing, Applications", a step-by-step tutorial for students that are familiar only with basic principles of physics of atmospheric radiation. (1.5 hour)

10:00 break
10: 30 Enrique (Tres) Montaño, The University of Maryland
- Lecture on optical coarse resolution sensors AVHRR->MODIS->VIIRS; data availability, access, quality assessment, and applications (1.5 hours).

12:00 lunch
1:00 Enrique (Tres) Montaño, The University of Maryland
- Lecture and computer tutorial on Moderate Resolution Imaging Spectroradiometer (MODIS) satellite image data products: (1.5 hours)

2:30 break
3:00 Dr. Mutlu Ozdogan, Assistant Professor, The University of Wisconsin, Center for Sustainability and the Global Environment

- Lecture and computer tutorial on Landsat satellite image pre-processing: radiometric and geometric image correction and normalization (2 hours).

5:00 break
5:15 Dr. Gregory N. Taff, Assistant Professor of geography, The University of Memphis

- Lecture on the basics of supervised and unsupervised classification of remotely sensed images (45 minutes).

6:00 break
6:30 dinner

MONDAY, AUGUST 23

8:00 breakfast

9:00 Dr. Mutlu Ozdogan, Assistant Professor, The University of Wisconsin, Center for Sustainability and the Global Environment

- Computer tutorial on hyperspectral remote sensing (75 minutes).

10:15 break
10:35 Dr. Yuri Knyazikhin, Research Professor, Boston University and Brian Rheingans, Jet Propulsion Laboratory, California Institute of Technology

- Lecture and computer tutorial on Multi-angle Imaging Spectroradiometer (MISR) satellite image data products (1 hr 55 minutes)

12:30 lunch

1:20 Dr. Peter Romanov (NOAA/ U. Maryland)

- Geostationary satellite data: processing and land surface applications (1 hr 20 minutes)

2:40 break
3:00 Dr. Gregory N. Taff, Assistant Professor of geography, The University of Memphis
Tutorial/lecture on statistical and geospatial methodologies appropriate for relating aggregated social/economic data to pixel-level remote sensing data. (1.5 hours)
4:30 break
5:00 Florian Schierhorn, PhD student, Leibniz Institute of Agricultural Development in Central and Eastern Europe (Advisor: Dr. Daniel Mueller)

- Spatial modeling of agricultural abandonment in FSU countries, using geoprocessing and numerical modeling (1 hour)

6:30 final dinner