

OUTLINE CONFERENCE PROGRAM
Natural Disasters: Challenges for Better Forecasting and Hazard Assessment
Mae Fah Luang University, Chiang Rai, Thailand

September 20-22, 2007

Day 1 (Thursday, September 20, 2007)

- 08.00-08.30** **Registration**
- 08.30-08.50** **Opening Ceremony**
Welcome Address
Dr. Vanchai Sirichana, President of MaeFah Luang University (MFU)
Welcome Comments
Mr. Apichai Chavajarenpun, Director General, Department of Mineral Resources, MNRE
Welcome Comments
Dr. Uma Charan Mohanty, on behalf of the Executive Director, Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand
- 08.50-09.30** **Keynote Address on Overview of Natural Disasters Worldwide: Frequency, Intensity, and Location**
Mr. Apichai Chavajarenpun, Director General, Department of Mineral Resources, MNRE
- 09.30-10.10** **Keynote Address on Overview of Natural Disasters in Thailand: Frequency, Intensity, and Location**
Dr. Uma Charan Mohanty, on behalf of Dr. Bhichit Rattakul, Executive Director, Asian Disaster Preparedness Centre (ADPC), Bangkok, Thailand
- 10.10-10.30** **Coffee Break**
- 10.30-12.00** **Presentations followed by Panel Discussion on Natural Disasters: (Panelists specializing in research on natural disasters)**
Facilitator: *Dr. Richard J. Frankel, Adjunct Professor NREMC, MFU*
- (1) **Earthquakes: Some Inducible Earthquake Active Faults in Northern Thailand and Its Vicinity**
Mr. Somsak Potisat, Geologist (Former Director General of the Department of Mineral Resources)
 - (2) **Floods and Drought:**
Speaker from Royal Irrigation Department
 - (3) **Coastal Erosion: Current Situation of Coastal Erosion in Thailand and South East Asia, Causes and Options for Mitigation**
Dr. Cherdchinda Chotiyaputta, Specialist, Department of Marine & Coastal Resources, MNRE
 - (4) **Landslides:**
Mr. Suree Teerarangsitkul, Senior Geologist, Department of Mineral Resources
- Discussion
- 12.00-13.30** **Lunch**

- 13.30-14.30** **Keynote Address on Methodology: Worldwide Experience and Assessment in the Application of Space Technologies to Forecasting and Hazard Assessment of Natural Disasters**
Dr. Gilbert Rochon (Chief Scientist, Rosen Center for Advanced Computing, Director, Purdue Terrestrial Observatory, Purdue University, USA); Adjunct Professor, NREMC, MFU
- Questions
- 14.30-15.15** **Forecasting Methodology: Improvements and Barriers to Advancement of Forecasting Science and Technology**
Dr. Uma Charan Mohanty, Climate Risk Management and Early-Warning Systems Team, Asian Disaster Preparedness Centre, Bangkok
- Questions
- 15.15-15.30** **Coffee Break**
- 15.30-16:00** **Application of GIS and Sensor Networks to Water Induced Disasters (Floods, Droughts and Landslides)**
Dr. Kiyoshi Honda, School of Engineering Technology, Asian Institute of Technology, Bangkok
- 16:00-16:30** **Questions and Comments on Forecasting Methodology by the Speakers and Participants**
Facilitator: *Dr. John Keith Syers, Dean School of Science, MFU*
- 16.30-17.15** **Campus Tour (optional)**
- 18.00-20.00** **Dinner Hosted by MFU**

Day 2 (Friday, September 21, 2007)

- 08:30-09:00** **Forecasting and Prediction: The Study of Risk Areas of Flood, Landslide and Drought Using Remote Sensing and GIS in Phayao Province, Northern Thailand**
Mr. Chira Prangkio, Director, Geo-Informatics and Space Technology Centre, Chiang Mai University
- 09:00-09:30** **Geological Factors Leading to Flooding and Landslides on October 9, 2006, at Doi Angkhang, Fang District, Chiang Mai Province**
Mr. Sampan Thaikruawan, Senior Meteorologist, Director of Research & Development, Meteorological Department, MRNE
- 09:30-10:00** **Application of IT to Forecasting and Hazard Assessment**
Mr. Banphot Nobaew and Mr. Worasak Rangsirarak, Lecturers, School of IT, MFU
- 10:00-10:20** **Coffee Break**
- 10.20-11.00** **Discussion of Case Studies, Open Discussion, Questions and Answer Period**
Facilitator: *Dr. Richard J. Frankel, Adjunct Professor NREMC, MFU*
- 11.00-12.00** **Discussion of Assessment Methodology: Advancements in Forecasting, Monitoring, and Predictions**
Facilitator: *Dr. Okitsugu Fujiwara, Advisor to the President and NREMC, MFU*
Rappateur: *Dr. Richard J. Frankel, Adjunct Professor, NREMC*
- 12.10-13.30** **Lunch**

- 13.30-14:00** **Discussion of Hazard Assessment: Analysis of Factors, Risks, Monitoring, and Technologies**
Facilitator: *Mr. Wisut Chotikasathien, Department of Mineral Resources, MNRE*
Rappateur: *Dr. Nguyen Luong Bach, School of Management, and Coordinator ADB Project, NREMC, MFU*
- 14.00-15.15** **Wrap Up Sessions**
Facilitator: *Dr. John Keith Syers, Dean School of Science, MFU*
Rappateur: *Dr. Richard J. Frankel, Adjunct Professor, NREMC, MFU*
- 15.15-15.30** **Coffee Break**
- 15.30-16.15** **Presentation of Wrap Up Session, Lessons Learned**
Conclusions and Recommendations for the Future
Facilitator: *Dr. John Keith Syers, Dean School of Science, MFU*
Rappateur: *Dr. Richard J. Frankel, Adjunct Professor, NREMC, MFU*
- 16.15-16:30** **Conference Resolution**
Facilitator: *Dr. Okitsugu Fujiwara, Advisor to the President and NREMC, MFU*
- 16.30-17.00** **Closing Ceremony**
Closing Remarks
Dr. Ted Tesprateep, Vice-President for Research Affairs and Academic Services, and Acting Director of NREM Center, MFU
Closing Remarks by Co-Sponsors
Department of Mineral Resources, MNRE
Asian Disaster Preparedness Center, Bangkok
- 18.00-20.00** **Dinner at Wan Asom Spa Health Center, MFU**

Day 3 (Saturday, September 22, 2007)

- 08.30-12.00** **Field Trip to Landslide Disaster Area, Fang District, Chiang Mai Province**
Co-Tour Leaders: Mr. Sampan Thaikruawan, Senior Meteorologist, Meteorological Department, MNRE and Mr. Huan Vu Duc, Research Associate, NREMC, MFU
Depart by bus from MFU, meet with government officers in charge of flooding and landslide disaster management; see sites of previous disaster; learn of villager and government responses; discuss new program of what local government plans to do in the future.
- 12.10-13.30** **Lunch in Fang District**
- 13.30-14.30** **Return to MFU**
- 15.00** **Checkout and Departure**