

**United Nations Regional Workshop on the
Use of Space Technology for Disaster Management for Western Asia**

Hosted by the King Abdulaziz City for Science and Technology (KACST)

**2 - 6 October 2004
Riyadh, Saudi Arabia**

Programme

Saturday 2 October

- 0800 – 0900 Registration of Participants
- 0900 – 1000 **Opening Ceremony**
- Opening statement by President of KACST
 - Statement by UN OOSA
 - Opening Address by Director of Space Research Institute, KACST
- 1000 – 1030 Morning Tea
- 1030 – 1200 **Keynote Presentations**
Chairperson: M. TARABZOUNI, KACST, Saudi Arabia
Rapporteur: M. KOUDMANI, GORS, Syria
- “Remote Sensing Capabilities for Disaster Management” (Dr. Kamel Shekho, KACST, Saudi Arabia)
 - “Using Satellite Imagery in Disaster and Crisis Management” (G. TABAKIAN, Space Imaging Middle East)
 - “Space Technology and Disaster Management” (D. STEVENS AND R. NEWMAN, OOSA)
- 1200 – 1330 Lunch
- 1330 – 1530 **Presentation Session 1 – Setting the Scene: Space Technology and Disaster Management**
Chairperson: M. ABDEEN, NARRS, Egypt
Rapporteur: S. MAHMOUD, NRIAG, Egypt
- “Oil Spill Monitoring in Brazil and an Approach for an Oil Spill Monitoring Centre at KACST” (G. FRANÇA, UFRJ, Brazil)
 - “Infra-Red Spectral Band Measurements for Seismic Activity Monitoring, Desertification Monitoring and Locust Mass Breeding Areas Monitoring” (V. GORNYI, Russian Academy of Sciences, Russian Federation)
 - “Detection and Mitigation of Flash Floods Hazards Using Remote Sensing and Geographic Information Systems” (A. ABDEL-HALIM, Cairo University, Egypt)
 - “Atlas on Space Observation Technology” (L. BECKEL, GEOSPACE, Austria)
- 1530 – 1600 Afternoon tea
- 1600 – 1730 **Discussion Session 1 — Space Technology and Disaster Management: Working Towards a Common Strategy for Western Asia**
(One group for the initial discussion. Define attributes of an effective strategy and how to develop the strategy. Then split into smaller groups for brainstorming session).

Sunday 3 October

- 0830 – 1000 **Presentation Session 2 – Understanding User Needs: Examples of Using Space Technology for Disaster Management**
Chairperson: S. E. H. YOUSSEF, Earthquake Disaster Reduction Data Centre, Egypt
Rapporteur: H. SABAT, Institute of Astronomy and Space Sciences, Jordan
- “Use of Space Technology for Natural Disaster Management in the Arab World” (M KOUDMANI AND I KAWAS, GORS, Syrian A. R.)
 - “The Use of Information Technologies in Disaster Response Operations” (H. GÜLER, Middle East Technical University, Turkey)
 - “Use of Space Technology for Natural Risk Assessment in Lebanon” (T. MASRI, National Centre for Remote Sensing, Lebanon)
 - “Application of Space Technology in Disaster Monitoring, Assessment and Mitigation in Bangladesh” (S. BEGUM, Space Research and Remote Sensing Organisation – SPARRSO, Bangladesh)
- 1000 – 1030 Morning Tea

| | |
|-------------|--|
| 1030 – 1200 | <p>Discussion Panel 1 – Defining Major Hazards and User Needs (Panellists with 5 minute contributions followed by open discussion) Moderator: T. MASRI, National Centre for Remote Sensing, Lebanon Rapporteur: E. GANAWA, Remote Sensing Authority, Sudan</p> <ul style="list-style-type: none"> • S. KHAN, Emergency Relief Cell, Pakistan • M. DALATI, GORS, Syria • S. BEGUM, Space Research and Remote Sensing Organisation – SPARRSO, Bangladesh • KACST Group, Saudi Arabia • K. ABANDEH, Jordanian Meteorology Department, Jordan • D JAYASINGHE ARACHCNI, Department of Meteorology, Sri Lanka • S. SHAABANI, Office of the President, Kenya |
| 1200 – 1330 | Lunch |
| 1330 – 1530 | <p>Presentation Session 3 – Building Upon Existing Space Technology Infrastructure Chairperson: A. EL HAG, Remote Sensing Authority, Sudan Rapporteur: I. AL-KAWASS, GORS, Syria</p> <ul style="list-style-type: none"> • “Spatial Information Requirements for Earthquake Disaster Mitigation and Relief Efforts” (M. DALATI, GORS, Syria) • “Monitoring Cathodic Protection Units on Oil Pipelines Using Saudisat”, (Dr. Abdulaziz Alsugair, KACST, Saudi Arabia) • “Using Space Technology for Earthquake Hazard Assessment and Disaster Management Studies” (S. E.H. YOUSSEF, Earthquake Disaster Reduction Data Center, Egypt) • “Post Gulf War Environmental Disaster Assessment and Prediction from 1989 to 1998 Using Space Observations and Spatial-Temporal Modelling in GIS Environment” (A. AL-DOUSARI, Kuwait Institute for Scientific Research, Kuwait) |
| 1530 – 1600 | Afternoon tea |
| 1600 – 1730 | <p>Discussion Session 2 – Common Strategy for Western Asia: Building Upon Existing Opportunities <small>(small groups for brainstorming session – contributing to developing the plan of action)</small></p> |
| 2030 – 2230 | Reception at Alkhozama Hotel |

Monday 4 October

| | |
|-------------|---|
| 0830 – 1000 | <p>Presentation Session 4 – Integrated Solutions for Space Technology and Disaster Management Chairperson: S. BEGUM, Space Research and Remote Sensing Organisation – SPARRSO, Bangladesh Rapporteur: A. ABDEL HALIM MOSTAFA, Cairo University, Egypt</p> <ul style="list-style-type: none"> • “GIS Yerevan – A GIS for simulating earthquakes and assessing its damages on the example of Yerevan” (H. YERITSYAN, Armenia) • “Using Remote Sensing Techniques and Geographic Information Systems to Combat Desertification” (A. AL ALWAN, Royal Jordanian Geographic Center, Jordan) • “National Geographic Information System for Disaster Management” (Mr. Walid Molla, KACST, Saudi Arabia) • “Application of Remote Sensing and Geographic Information Systems for Site Selection for Hazardous Waste Disposal in Arid Areas” (M. ABDEEN, NARRS, Egypt) |
| 1000 – 1030 | Morning Tea |
| 1030 – 1200 | <p>Discussion Panel 2 – Building Capacity and Strengthening Institutions (Panellists with 5 minute contributions followed by open discussion) Moderator: A. AL-DOUSARI, Kuwait Institute for Scientific Research, Kuwait Rapporteur: D. JAYASINGHE ARACHCNI, Department of Meteorology, Sri Lanka</p> <ul style="list-style-type: none"> • A. ABBAS EL HAG, Remote Sensing Authority, Sudan • H. SABAT, Al Al-Bayt University, Jordan • A. AL DOUSARI, Kuwait Institute for Scientific Research, Kuwait • KACST Group, Saudi Arabia • I. AL-KAWASS, GORS, Syrian A. R. • M. AIT BELAID, Arabian Gulf University, Bahrain • S MAHMOUD, National Research Institute of Astronomy and Geophysics, Egypt |
| 1200 – 1330 | Lunch |
| 1330 – 1730 | Technical visit |

Tuesday 5 October

- 0830 – 1000 **Presentation Session 5 – Innovative Developments and Initiatives**
Chairperson: M. TARABZOUNI, KACST, Saudi Arabia
Rapporteur: H. GÜLER, Middle East Technical University, Turkey
- “Study and Design of Portable Communication Systems for Disaster Relief” (H. REZAZADEH, Telecommunication Company of Iran, I. R. Iran)
 - “Monitoring of Crustal Movements Using GPS Techniques” (S MAHMOUD, National Research Institute of Astronomy and Geophysics, Egypt)
 - “Measuring Tectonic Movements Using Laser Ranging” (Mr. H. AL-SALMAN, KACST, Saudi Arabia)
 - “Community-based Drought Monitoring Using Both Satellite Images and Ground Data in Kenya” (S. SHAABANI, Office of the President, Kenya)
- 1000 – 1030 Morning Tea
- 1030 – 1200 **Discussion Panel 3 – The Role of Government and Private Sector**
Moderator: S. KHAN, Emergency Relief Cell, Pakistan
Rapporteur: S. SHAABANI, Office of the President, Kenya
- KACST Group, Saudi Arabia
 - G. FRANÇA, UFRJ, Brazil
 - M. ABDEEN, NARRS, Egypt
 - V. GORNYI, Russian Academy of Sciences, Russian Federation
 - S. SHAABANI, Office of the President, Kenya
- 1200 – 1330 Lunch
- 1330 – 1530 **Open Session**
Chairperson: M. DALATI, GORS, Syria
Rapporteur: K. ABANDEH, Jordanian Meteorology Department, Jordan
- “ARGOS Applications and Services” (M. TARABZOUNI, KACST, Saudi Arabia)
 - “Spatial Decision Support System for Land Use Planning” (E. GANAWA, Remote Sensing Authority, Sudan)
 - “Quick Bird: Using the Highest Resolution Commercial Satellite Imagery for Disaster Management” (G. KHOURY, Maps Geosystems, Lebanon)
 - “Space Techniques for Desertification Monitoring and Control” (M. AIT BELAID, Arabian Gulf University, Bahrain)
- 1530 – 1600 Afternoon tea
- 1600 – 1730 **Discussion Session 3 – Strengthening the Institutional Aspects of Space Technology and Disaster Management**
(Discussion in small groups with aim of contributing to the plan of action)

Wednesday 6 October

- 0830 – 1030 **Discussion Session 4 - Defining a Common Strategy and Building Partnerships**
(Discussion in one big group)
- 1030 – 1100 Morning Tea
- 1100 – 1200 **Wrap-up Session**
- Synthesis of presentations, open sessions and discussion panels (reports given by each rapporteur)
 - Presentation of the proposals and recommendations for the implementation of a regional network and plan-of-action
- Closing remarks**
- UNOOSA
 - KACST