



GEON The Geosciences Network (GEON) Cyberinfrastructure Workshop

at the **University of Hyderabad**, India, **3rd-8th August 2007**

Organised by

University of California, San Diego

**Center for Modeling Simulation and Design & University Centre for Earth and Space Sciences -
University of Hyderabad**

Indo-US Science & Technology Forum

What is GEON?

GEON is developing Cyberinfrastructure for integrative research to enable transformative advance in Geosciences research and education. The key science driver in GEON is a more quantitative understanding of the 4-D evolution of the continental lithosphere (gravity modeling of 3-D geological features, study of active tectonics, faults and earthquakes, geodynamics model & lithospheric structure).

Workshop at the University of Hyderabad (UoFH)

GEON will conduct a Cyberinfrastructure Workshop at the University of Hyderabad, India, jointly with Center for Modeling, Simulation and Design (CMSD), University Centre for Earth and Space Sciences (UCESS) & San Diego Supercomputer Center (SDSC). The University of Hyderabad (UoFH) is one of the leading science universities in India. Recently, UoFH has established a Supercomputer Center and launched a new University Centre for Earth and Space Sciences (UCESS).

THEME: Networking Indian Geoscience Community through iGEON

The workshop will highlight features of GEON and discuss its architecture from programmer/user perspective. This will be followed by lab demos. Many domain experts will discuss application challenges and need for such an infrastructure. We will formally launch iGEON node for networking Geoscience community.

SCOPE:

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|-------------------------------|-----------------------------------|
| 1. GEON and GEON Applications | 5. Domain based Case Studies |
| 2. Architecture | 6. Labs |
| 3. Installation of GEON node | 7. Panel Discussion |
| 4. Networking of GEON Nodes | 8. Recommendations and Road Ahead |

This activity helps in cross-fertilization between IT and Geosciences enable new modes of Geosciences research particularly in Atmospheric Sciences, Mineral Exploration and Remote Sensing.

UoFH plans to deploy a GEON node in order to host a geochemistry database and other geosciences services. A number of Earth Science related institutions are colocated in the city of Hyderabad including, the National Geophysical Research Institute (NGRI), the National Remote Sensing Agency (NRSA), Atomic Mineral Directorate (AMD), Geological Survey of India (GSI), National Mineral Development Corporation (NMDC) and National Centre for Ocean Information Services (INCOIS).

The Workshop will be conducted at the University of Hyderabad between 3rd and 8th August 2007. The GEON node will also be installed at that time.

This is one of the first formal international collaborations GEON has developed. Plans to add other international partners are being developed.

We invite students, researchers, teachers and professionals to participate in the Workshop.

Registration Fees:

Student : Rs.300
Teacher : Rs.500

IEEE Professional : Rs.750
Non-IEEE Professional.... : Rs.1000

for further details, please contact

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