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**DECEMBER 2006 AGU NEAR SURFACE GEOPHYSICS NEWSLETTER**

1. Near-Surface Geophysics at the 2006 Fall Meeting of AGU, December 11-15.
  2. NS Chairs for 2007 Fall Meeting and 2008 Joint Assembly
  3. Position Available
  4. Medals Nominations for 2007
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**1. Near-Surface Geophysics at the 2006 Fall Meeting of AGU, December 11-15.**

**TOWN HALL AND SOCIAL EVENING: Tuesday starting at 17:45**

*17:45-18:00*

**Open Near-Surface Discussion** (mini-Town Meeting) at end of NS24A session in MCS 220

Rosemary Knight will lead a discussion of the activities and plans of the Near-Surface Geophysics Focus Group. She will also provide an update on HMF-Geophysics and discuss opportunities for community involvement as we try to advance the use of geophysics in the hydrologic sciences.

*18:00-??*

**Near-Surface Social Gathering** at Kate O'Briens restaurant on 579 Howard Street

**TUESDAY:** talks all day in room MCS 220

*8:00-10:00*

**NS21A Induced Polarization, Self-Potential, and Seismic-Electric Coupling: Opportunities and Challenges for the 21st Century I**  
(joint with Biogeosciences and Hydrology)

*10:20-12:20*

**NS22A Applied Geophysics I**  
(joint with Hydrology, Seismology, Tectonophysics, and Public Affairs)

(Near-Surface Executive Committee Meeting over lunch)

*13:40-15:40*

**NS23A Near-Surface Geophysical Inverse Problems: Novel Techniques and Uncertainty Estimation I**  
(joint with Geomagnetism and Paleomagnetism, Hydrology, Seismology, and Nonlinear Geophysics)

*16:00-17:45*

**NS24A Applications of Near-Surface Geophysics in Coastal Environments I**  
(joint with Hydrology, Ocean Sciences, and Public Affairs)

*17:45-18:00*

**Open Near-Surface Discussion** (mini-Town Meeting) at end of NS24A session in MCS 220

Rosemary Knight will lead a discussion of the activities and plans of the Near-Surface Geophysics Focus Group. She will also provide an update on HMF-Geophysics and discuss opportunities for community involvement as we try to advance the use of geophysics in the hydrologic sciences.

*18:00-??*

**Near-Surface Social Gathering** at Kate O'Briens restaurant on 579 Howard Street

**WEDNESDAY:** morning posters in MCW level 2 (23 posters)

*8:00*

**NS31A Induced Polarization, Self-Potential, and Seismic-Electric Coupling: Opportunities and Challenges for the 21st Century II Posters**  
(joint with Biogeosciences and Hydrology)

**NS31B Applications of Near-Surface Geophysics in Coastal Environments II Posters**  
(joint with Hydrology, Ocean Sciences)

**NS31C Near-Surface Geophysical Inverse Problems: Novel Techniques and Uncertainty Estimation II Posters**  
(joint with Geomagnetism and Paleomagnetism, Hydrology, Seismology, and Nonlinear Geophysics)

**THURSDAY:** morning posters in MCW level 2 (36 posters)

*8:00*

**NS41A Applied Geophysics II Posters**  
(joint with Hydrology, Seismology, and Tectonophysics)

**NS41B Near-Surface General Contributions Posters**  
(joint with Hydrology and Seismology)

**Sessions Co-sponsored by Near-Surface Geophysics**

*Monday*

**B11A Biofilms in the Environment: Adaptive Roles, Microbe-Mineral Interfaces, and Contributions to Global Biogeochemical Cycles I Posters**

**ED11C Teacher Professional Development Programs Promoting Authentic Scientific Research in the Classroom I**

**H11G Bridging Hydrology, Soil Science, and Ecology: Hydropedology and Ecohydrology I**  
**OS11E Gas Hydrates I**  
**S11B Advances in Signal Processing Methods for Seismic Data Analysis I**

**ED12A Teacher Professional Development Programs Promoting Authentic Scientific Research in the Classroom II**  
**H12B Bridging Hydrology, Soil Science, and Ecology: Hydropedology and Ecohydrology II**  
**OS12C Gas Hydrates II**

**B13B Frontiers in Biomineralization Research I: Processes and Signatures in Natural and Model Systems Posters**  
**ED13A Teacher Professional Development Programs Promoting Authentic Scientific Research in the Classroom III Posters**  
**S13B Advances in Signal Processing Methods for Seismic Data Analysis II Posters**

**B14B Biofilms in the Environment: Adaptive Roles, Microbe-Mineral Interfaces, and Contributions to Global Biogeochemical Cycles II**

*Tuesday*

**B21C Hydrology and Biogeochemistry of Northern Watersheds: Current Status and Response to Climate Change I**  
**B21D Frontiers in Biomineralization Research II: Signatures**  
**S21B Surface Waves: Someone's Noise Is Another One's Signal I**

**B22B Frontiers in Biomineralization Research III: Processes**

**B23E Hydrology and Biogeochemistry of Northern Watersheds: Current Status and Response to Climate**  
**S23A Surface Waves: Someone's Noise Is Another One's Signal II Posters**  
**S23D Surface Waves: Someone's Noise Is Another One's Signal III Posters**

*Wednesday*

**B31D Methane: Toward a Multiscale Approach to Reducing Uncertainties in Its Emissions I**  
**ED31B Incorporating Public Policy and Outreach in Graduate Curricula of the Earth and Environmental Sciences Posters**  
**OS31D Marine Geology and Geophysics General Contributions Posters**  
**V31G Dynamics of Volcanic Explosions: Field Observations, Experimental Constraints, and Integrated Modeling I**

**B32A Methane: Toward a Multiscale Approach to Reducing Uncertainties in Its Emissions II**  
**V32C Dynamics of Volcanic Explosions: Field Observations, Experimental Constraints, and Integrated Modeling II**

**B33B Methane: Toward a Multiscale Approach to Reducing Uncertainties in Its Emissions  
III Posters**  
**OS33B Gas Hydrates IV Posters**  
**V33E Dynamics of Volcanic Explosions: Field Observations, Experimental Constraints,  
and Integrated Modeling III**

*Thursday*

**NG42A Active Monitoring in Solid Earth Geophysics I**

**NG43A Geothermal Reservoir System I Posters**  
**S43D Mantle and Crustal Structure II: Faults and Impacts**  
**V43B Dynamics of Volcanic Explosions: Field Observations, Experimental Constraints,  
and Integrated Modeling IV Posters**  
**V43C Dynamics of Volcanic Explosions: Field Observations, Experimental Constraints,  
and Integrated Modeling V Posters**

**S44B Mantle and Crustal Structure III: Effects on Wave Propagation**  
**V44A Potential Field and Thermal Investigations of Active Volcanic Systems I**

*Friday*

**NG51A Active Monitoring in Solid Earth Geophysics II Posters**  
**P51G Geophysical Field Investigations of Mars Analog Environments**  
**V51A Potential Field and Thermal Investigations of Active Volcanic Systems II Posters**

**B53B Merging Experiments, Sensing, and Modeling for Predicting Coupled  
Biogeochemical Process Behavior Posters**  
**S53A Mantle and Crustal Structure IV Posters**  
**S53B Mantle and Crustal Structure V Posters**

**NG54A Geothermal Reservoir System II**

**Hydrogeophysics sessions at Fall AGU**

*Wednesday*

**H31B Hydrogeophysics: Geophysical Characterization of Subsurface Hydraulic Properties  
and Monitoring of Water Flow and Solute Transport Processes I Posters (MCW Level 2)**

*Thursday*

**H41G Advances in Characterization of Subsurface Transport Processes and Integration  
with Numerical Models I (MCW 3002)**

**H42A Advances in Characterization of Subsurface Transport Processes and Integration  
with Numerical Models II (MCW 3002)**

**H43A Advances in Characterization of Subsurface Transport Processes and Integration  
with Numerical Models III Posters (MCW Level 1)**

H43E Watershed Characterization I Posters (MCW Level 1)

H43G Hydrogeophysics: Geophysical Characterization of Subsurface Hydraulic Properties and Monitoring of Water Flow and Solute Transport Processes II (MCS 301)

H44B Hydrogeophysics: Geophysical Characterization of Subsurface Hydraulic Properties and Monitoring of Water Flow and Solute Transport Processes III (MCS 301)

Friday

H51J Watershed Characterization II (MCS 305)

H52C Watershed Characterization III (MCS 305)

H53H Watershed Characterization IV (MCW 3004)

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## 2. NS Chairs for 2007 Fall Meeting and 2008 Joint Assembly

Anyone willing to serve as Technical Chair for the Fall 2007 AGU meeting or the 2008 Joint Assembly contact Estella Atekwana as soon as possible ([estella.atekwana@okstate.edu](mailto:estella.atekwana@okstate.edu)).

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## 3. Position Available

### Stanford University - Thompson Postdoctoral Fellowship in Geophysics

The Department of Geophysics, Stanford University, has established the Thompson Postdoctoral Fellowship to support the research of recent graduates, preferably within two years after receipt of the Ph.D. We are most interested in using this opportunity to support individuals who explore new areas of research that cross existing disciplinary boundaries. Students and recent graduates in Earth science, physics, chemistry, biology, or computational sciences who are interested in the general geophysical sciences are encouraged to apply. The department is currently active in crustal geophysics, exploration geophysics, seismic imaging, rock physics, earthquake seismology, crustal deformation, environmental geophysics, and atmospheric, ocean, and planetary sciences.

Appointments are for a one- or two-year term. The salary is \$55K per year, plus a \$5K stipend for travel and miscellaneous research expenses. Applicants should submit a statement of research interests and proposed research, a curriculum vita, a list of publications, and names of three potential referees. Application materials should be sent by email, before January 2, 2007, to

[thompsonfellowship@pangea.stanford.edu](mailto:thompsonfellowship@pangea.stanford.edu)

(see also <http://pangea.stanford.edu/GP/research>)

Stanford University has a strong institutional commitment to the principle of diversity. In that spirit, we encourage applications from women, members of ethnic minorities, and individuals with disabilities. Stanford University is an equal opportunity/affirmative action employer.

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## 4. Nominations for 2007 Medals

The Fall Meeting is an excellent time to consider who among our colleagues should be nominated for medals and to line up individuals to prepare the nomination and provide supporting letters. The deadline for nominations was moved to 15 March partly to assure that preparation of nominations for medals was not in competition for time to prepare Fellows nominations.

There are several medals for which NS affiliates are well suited. The description of medals and a link to the former recipients can be found at <http://www.agu.org/inside/honors.html>

Instructions for preparation of nominations can be found at <http://www.agu.org/inside/awardnom.html>

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To contribute material to the NS-letter e-mail before the first of the month to:

George Tsoflias [tsoflias@ku.edu](mailto:tsoflias@ku.edu)