CMG2004 Poster Session/Reception

June 17th: 6-9pm

Multiphase dynamics I

P1 Orientational flow enhancement and inhibition in rough fractures  
Mika Latva-Kokko and Daniel H. Rothman (MIT)

P2 Two-phase capillary flow through undulating tube  
Mika Latva-Kokko and Daniel H. Rothman (MIT)

P3 Consequences of adiabatic decompression melting on magmatic channelling instabilities  
Yanming Fang and Marc Spiegelman (Columbia/APAM)

P4 On grain boundary wetting during deformation  
Saswata Hier-Majumdar, Perry H. Leo and David Kohlstedt (U. Minnesota)

Solid Earth I & Computation

P5 Motion of the Earths Center of Mass. Physical Principles.  
G.V. Kiryan and D.G Kiryan (St. Petersburg)

P6 Visco-Elastic Damage Rheology: Theory and Experimentimal Tests  
Yariv Hamiel (1), Yunfeng Liu (2), Vladimir Lyakhovsky (3), Yehuda Ben-Zion (2), Dave Lockner (4) (1)The Hebrew University of Jerusalem (2) University of Southern California (3) The Geological Survey of Israel, (4) U.S.G.S., Menlo Park

P7 The CIG: A Computational Infrastructure for Geodynamics  
Marc Spiegelman (Columbia) & Mike Gurnis (CalTech)

P8 Computational Geodynamics with PETSc  
Richard Katz (LDEO/Columbia) Matt Knepley (Argonne Nat. Labs) & Marc Spiegelman (LDEO/Columbia)

Fluids I ocean/atm. dynamics

P9 Implications of self-modulated WWBs on ENSO variability  
Ian Eisenman and Eli Tziperman (Harvard University)

P10 Thermal properties of a coupled ocean-atmosphere: A conceptual model  
Hsien-wang Ou (LDEO/Columbia)

P11 A technique for diagnosing moisture dynamics in GCMs  
Joseph Galewsky and Adam Sobel (DAPAM/Columbia) & Isaac Held GFDL/NOAA Princeton

P12 The Sensivity of a Moist Model of the Hadley Circulation to Varying the Surface Latent Heat Flux  
Samuel Burns (DAPAM/Columbia)

Solid Earth dynamics II

P13 Petrological layering at 660km induced by multi-component phase changes in cooling Earth  
Takashi Nakagawa (Univ. Chicago)

P14 Two Time-Scales of Pulsation of the Iceland Plume Inferred From Magnetic Anomalies of the North-Atlantic  
Meir Abelson (Geol. Survey of Israel) & Amotz Agnon (Hebrew University, Jerusalem)

P15 Identification of Mantle Plumes using Second Generation Wavelets  
Gordon Erlebacher, David A. Yuen, and Oleg V. Vasilyev

P16 The Dynamics of Hydrous Cold Plumes seen through one billion Tracers  
David A. Yuen (1), Taras V. Gerya(2), Maxwell Rudolph (3), Allison Capel (1), and Erik O.D.Sever (1) 1. Universityof Minnesota/Minnesota Super-computer center) 2. Geology Institute Sonneeggstrasse 5, E.T.H., 3. Department of Geology, Oberlin College
Multiphase dynamics II

P17  Volcanic forcing improves AOGCM scaling performance
     Dmitry Vyushin (University of Toronto)

P18  An Analytic Solution of Steady Stokes Flow on a Rotating Spherical Cap
     Hideaki Kitauchi (FRSGC, Jamstec, Japan), Harper Simmons (Fairbanks, Alaska) & Motoyoshi Ikeda (Hokkaido University)

P19  On the importance of disequilibrium degassing for volcanic eruptions
     J. Johnson, A. Proussevitch, and D. Sahagian (University of New Hampshire)

P20  A particle sedimentation model of buoyant jets based on observations of hydrothermal plumes
     Karen G. Bemis, Deborah Silver, Peter Rona (Rutgers University)

Fluids II

P21  Biogeochemical susceptibility of ancient oceans to extreme isotopic events
     Alison M. Cohen and Daniel H. Rothman (M.I.T)

P22  Development of perturbations on a buoyant coastal current
     Olof H Dahl (Dept. of Oceanography, Goteburg University, Sweden)

P23  Towards Limnological Modeling of the Dead Sea: Mass and Heat Balances
     Dvorkin Y., Lensky N., Lyahovsky V., Gavriel I (Geological Survey of Israel)

P24  Nonlinear shallow water model with weak temperature gradient approximation
     Bo Zhou and Adam Sobel (DAPAM/Columbia)

Fluids III: GFD

P25  Flow baroclinicity in large scale circulations
     Frank Robinson and Steven Sherwood (Yale University)

P26  Spectral modeling of internal waves and turbulence and its application in simulations of turbulent flows with stable stratification
     Boris Galperin (USF), Semion Sukoriansky (Ben Gurion University) & Veniamin Perov (Swedish Met. & Hydr. Inst)

P27  Baroclinic eddy life cycles and the potential role for mid latitude climate.
     Nili Harnik (LDEO/Columbia)

P28  Stratospheric Influence on Baroclinic Lifecycles
     Matthew Wittman & Lorenzo Polvani (DAPAM/Columbia)

Data assimilation and analysis

P29  Application of AR models to Lagrangian prediction, data assimilation, and stochastic BCs
     Toshio M. Chin (1,2), Annalisa Griffa (1,3), Arthur J Mariaon (1), & Tamay M Ozgokmen (1). 1: RSMAS/MPO University of Miami, 2: JPL/Caltech, 3: CNR, Spezia, Italy

P30  Wavelet Evaluation of Inverse Vening Meinesz Integral
     Neda Darbeheshti (National Cartographic Center of Iran)

P31  Fractal Dimension of Measuring Network: Implications in Interpolation and Detectibility
     V.P. Dimri, Ravi P. Srivastava and Nimisha Vedanti National Geophysical Research Institute, Hyderabad, 500 007, India

P32  Data Assimilation by Synchronous Coupling of Truth and Model
     Greg Duane (UCAR)