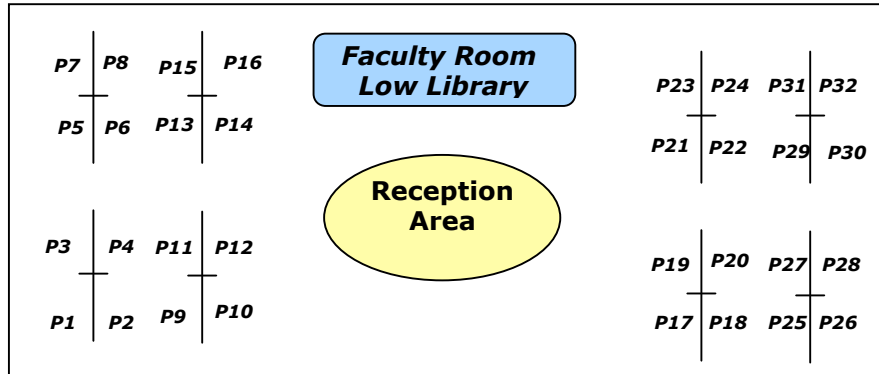


CMG2004 Poster Session/Reception

June 17th: 6-9pm



Multiphase dynamics I

- P1** **Oriental 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 Experimental 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. Sevre (1) 1. University of Minnesota/Minnesota Super-computer center) 2. Geology Institute Sonneggstrasse 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., Gavrieli 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 Detectability**
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)