Luminescence

2014
Haas Scholars
Undergraduate
Research
Conference

UNIVERSITY
OF CALIFORNIA,
BERKELEY

JANUARY 16–17
Conference
The Faculty Club
at UC Berkeley
Howard Room

JANUARY 17
4:30–6:30
Haas Scholars
Alumni Reunion
The Faculty Club
at UC Berkeley
Heyns Room and Patio

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THURSDAY, JANUARY 16
Howard Room, The Faculty Club, UC Berkeley

1:00–2:30 Seeing the World
Discussant: Eve Sweetser, Linguistics
Ayden Parish (Linguistics)
Conceptual Metaphor in Describing Transgender Identities
Sponsor: Eve Sweetser, Linguistics
S. Zayd Enam (Electrical Engineering and Computer Sciences)
Neurally Inspired Self-Organizing Maps for Image Coding
Sponsor: Bruno Olshausen, Redwood Center for Theoretical Neuroscience
Zoë Pollak (English)
The World in the Globe of the Eye: Reading Marilynne Robinson’s Housekeeping as a Reflection on Henry Thoreau’s Walden
Sponsor: Robert Hass, English

2:45–4:15 Our Sense of Place
Discussant: Rosemary Joyce, Anthropology
Patrick Donnelly-Shores (Conservation and Resource Studies)
Tortoises, Sunflowers, and Subsidies: Large-Scale Solar Energy Policy in California and Andalucia
Sponsor: Alastair Iles; Environmental Science, Policy, and Management
Sikai Song (Integrative Biology; Public Health)
Indigenous Knowledge and Bio-Efficacy of Medicinal Plant Use: An Ethnobotanical Study of Sindhupalchok, Nepal
Sponsor: Thomas Carlson, Integrative Biology
Judy Schafer (Interdisciplinary Studies Field)
Crossing Borders: Youth, Migration, and Mortality
Sponsor: Leti Volpp, Berkeley Law

4:30–5:30 Genetic Innovations
Discussant: Sangwei Lu, Public Health
Robert Chen (Bioengineering; Materials Science and Engineering)
MiCodes: Enabling Library Screens with Microscopy by Connecting Genotypes to Observable Phenotypes
Sponsor: John Dueber, Bioengineering
Laura Carolina Rodriguez-Adjunta (Molecular and Cell Biology)
Characterization of Fine Genetic Regulatory Mechanisms of a Bacterial sRNA in the Virulence of a Foodborne Pathogen: Salmonella Typhimurium
Sponsor: Fenyong Liu, Public Health
FRIDAY, JANUARY 17
Howard Room, The Faculty Club, UC Berkeley

8:30–9:00  Welcome and Coffee

9:00–10:30  Interpreting the Physical
Discussant: Laurie Wilkie, Anthropology
Jess Genevieve Bailey (History of Art)
Spoken Word as Figure: Visual Iconographies of Nenbutsu in Medieval Japan
Sponsor: Gregory Levine, History of Art
Leah Grant (Anthropology; History)
An Archaeology of Food, Race, and Gender at Fort Davis, Texas
Sponsor: Laurie Wilkie, Anthropology
Sara Sol Linck-Frenz (Comparative Literature)
Collapsing the Frame: The Moving Body as a Site for Social (De)construction
Sponsor: SanSan Kwan; Theater, Dance, and Performance Studies

10:45–11:45  Environmental Innovations
Discussant: Ken Sauer, Chemistry
Brendon McNicholas (Chemistry)
Electrochemical Characterization of First-Row Transition Metal Corrole Complexes for Use as Oxygen Reduction Catalysts
Sponsor: John Arnold, Chemistry
Christina Marie Hamilton (Earth and Planetary Science; Marine Science)
Automation of Carbon Flux Explorers for the Study of the Ocean Biological Carbon Pump
Sponsor: Jim Bishop; Earth and Planetary Science, Marine Geochemistry

12:00–1:00  Lunch, Heyns Room, The Faculty Club, UC Berkeley

1:15–2:45  Exposing Silences
Discussant: Kathryn Abrams, Berkeley Law
Thatcher Combs (Sociology)
Should There Be a T? The Silencing of the “T” in the LGBT Movement
Sponsor: Raka Ray, Sociology
Rachel Gottfried-Clancy (Geography)
Geographies of Justice: Reconciliation and the Role of Transitional Justice in Brazil
Sponsor: Kathryn Abrams, Berkeley Law
Yanyue (Adelina) Wang (Economics; Applied Mathematics)
Income Tax Reform, the Evolution of Inequality, and the Boost of Domestic Demand—In Search of a Sustainable Economic Growth Model
Sponsor: Emmanuel Saez, Department of Economics

3:00–4:30  Equity and Ethics in Public Health
Discussant: Victoria Robinson, Ethnic Studies
Minda Murphy (Anthropology)
HIV, Gender, Belonging, and the State: Reflections from Post-Conflict Northern Uganda
Sponsor: Lawrence Cohen, Anthropology
Kaitlin Kimmel (Interdisciplinary Studies Field Major)
Stories from the Heart: Biosocial Narratives of Adults with Complex Congenital Heart Disease
Sponsor: Susan Schweik, English and Disability Studies
Muska Fazilat (Public Health)
Midwifery Practices in Afghanistan: The Influence of Purdah on Maternal Health
Sponsors: Malcolm Potts, Public Health; Lawrence Cohen, Anthropology; Raka Ray, Sociology

4:30–6:30  Haas Scholars Alumni Reunion,
Heyns Room and Patio, The Faculty Club, UC Berkeley