FIAT f(lux)

fiat lux: LET THERE BE LIGHT

Academics and Artists in Transition

2004 Haas Scholars Undergraduate Research Conference
UNIVERSITY OF CALIFORNIA, BERKELEY

APRIL 21–MAY 1

The Faculty Club
The 2004 conference theme — Fiat lux — plays with the UC motto, Fiat Lux (let there be light, or wisdom), on several levels. This year’s Haas Scholars seek to advance knowledge and understanding by building on UC’s academic traditions and resources. At the same time, through their groundbreaking research and art, they seek to affect change (or flux) in the academy and beyond.

The algebraic form applied to the Latin motto, Fiat lux, suggests the inclusion of science and engineering research; as well as social science, humanities, and the arts.

The core of the Fiat lux (or flux) symbolizes the scholars’ collective energy; the emanating rays represent the creativity generated by interdisciplinary exchange and friendship.

We invite you to join this respectful and democratic community in celebrating the culmination of this year’s remarkable work.

FRIDAY, APRIL 30
The Faculty Club, Heyns Room
10:15–10:45 Welcome and Coffee
10:45–12:15 Genes, Proteins, and Peptides: Probing the Molecules of Life
Chair: Professor Susan Marqusee, Molecular and Cell Biology
Nasim Sadeghian (Molecular and Cell Biology Major)
Cloning of Extended Auxiliary 1: A Maize Leaf Developmental Mutant
Sponsor: Professor Michael Freeling, Plant and Microbial Biology
Irene Wong (Molecular and Cell Biology and Japanese Major)
A Novel Approach to Synthetic Vaccine for HIV-1 Involving a Beta-Hairpin Peptide Having Fluorooromatic Amino Acids
Sponsor: Ahamindra Jain, Lecturer, Chemistry
Jacqueline Gilmore (Molecular and Cell Biology Major)
Investigation of the Biophysical Origin of Proteolytic Resistance
Sponsor: Professor Susan Marqusee, Molecular and Cell Biology
12:15–1:45 Lunch, Howard Room, to honor the 2003–2004 scholars and mentors
2:00–3:30 The Revolution Will Not Be Televised: Community Activism in Response to Marginality
Chair: Professor Laura Nader, Anthropology
Malcolm Harvey (Sociology Major)
The Association Between Combat Post-Traumatic Stress Disorder, Self-Perception, and Worldview — and its Social Ramifications
Sponsor: Professor Kim Voss, Sociology
Jason Malinsky (Individual Major: Environmental Policy and Investigative Reporting)
The Obligation to Endure: Pesticide Poisonings in California
Sponsor: William Berry, Earth and Planetary Science
Laura Alarcón (Anthropology Major)
Shaping a Nation: Middle Class Mobilization in Caracas
Sponsor: Professor Laura Nader, Anthropology
3:45–5:15 Searching for Meaning
Chair: Professor Ananya Roy, City and Regional Planning
Timothy Poore (Psychology Major)
Effects of Unconditional Self-Construct on Vulnerability and Performance: The Role of “Positive Glow”
Sponsor: Professor Rodolfo Mendoza-Denton, Psychology
Elizabeth Lane (Philosophy Major)
The Elderly Among Us (Photography project)
Sponsor: Emerita Penny Dhaemers, Visual Studies, Architecture
Dafna Kory (Interdisciplinary Studies Field Major)
Give and Take: Charity and Tourism in Bodhgaya, India
Sponsor: Ananya Roy, City and Regional Planning
5:30–7:00 New Scholars Reception, Howard Room
7:15–8:00 A Scratched Lens: Readings from Zeina Halim’s Novel-in-Progress, followed by discussion

SATURDAY, MAY 1
The Faculty Club, Heyns Room
9:00–9:30 Welcome and Coffee
9:30–11:00 Pressures on Gender, Culture, and Nation
Chair: Professor Joel Altman, English
Crystal Finn (English Major)
Women Playing Men: Cross-Gender Conditions in Shakespeare Performance
Sponsor: Professor Joel Altman, English
Zeina Halim (English Major)
An Egyptian-American Author Wrestles with Sexuality and Religion in the Writing of Her First Novel
Sponsor: Ishmael Reed, Senior Lecturer, English
Faisal Ghorii (History Major)
Secret Trials and Deportations
Sponsor: Professor Kiren Chaudhry, Political Science
11:15–12:15 Catalysts and Computers: Novel Technological Approaches to Societal Challenges
Chair: Professor Alex Katz, Chemical Engineering
Sandra Anderson (Chemistry Major)
The Interplay Between Local Organization and Activity of a Heterogeneous Base Catalyst
Sponsor: Professor Alex Katz, Chemical Engineering
Margaret Yau (Electrical Engineering and Computer Sciences Major)
Tangible Messaging: Accessible Technology for the Elderly
Sponsor: Professor Arind Dey, Electrical Engineering and Computer Sciences
12:15–12:45 Light Lunch, Heyns Room
12:45–2:15 The Ongoing War Between Man and Microbe: Pathogen Survival and Host Response
Chair: Professor Sangwei Lu, Public Health
Jonathan Clingan (Molecular and Cell Biology Major)
A Functional Study of HCMV UL 117: Transcript and Protein
Sponsor: Professor Fenyong Liu, Public Health
Raul Clavijo (Molecular and Cell Biology Major)
Role of the cadAB Operon in the Egg Resistance of Salmonella
Sponsor: Professor Sangwei Lu, Public Health
Manasa Basavapatna (Molecular and Cell Biology and Social Welfare Major)
Role of Interferons in Primary Dengue Infection in Mice
Sponsor: Professor Sangwei Lu, Public Health
2:30–4:00 A Place of One’s Own
Chair: Professor Dawnne Moon, Sociology
Gregory Hughes (Sociology Major)
Exploring Rural Gay Identity and Community Formation
Sponsor: Professor Dawne Moon, Sociology
Tara Rado (Anthropology Major)
“Here, We Are Artistas:” Sex Work and Daily Life in a Public Park in Downtown Rio de Janeiro
Sponsor: Professor Nancy Schepers-Hughes, Anthropology
Alysoun Quinby (Linguistics Major)
Linguistic Atlas of River Yuruk
Sponsor: Professor Andrew Garrett, Linguistics