

Program Leadership



Laurent Pilon, Co-PI
Assoc. Prof., MAE



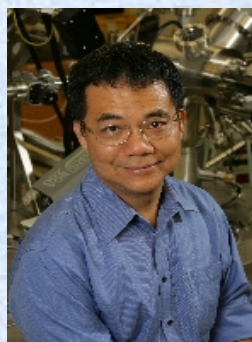
Kang Wang, Co-PI
Prof., EE



Diana Huffaker, PI
Assoc. Prof., EE
Director, INML, CNSI

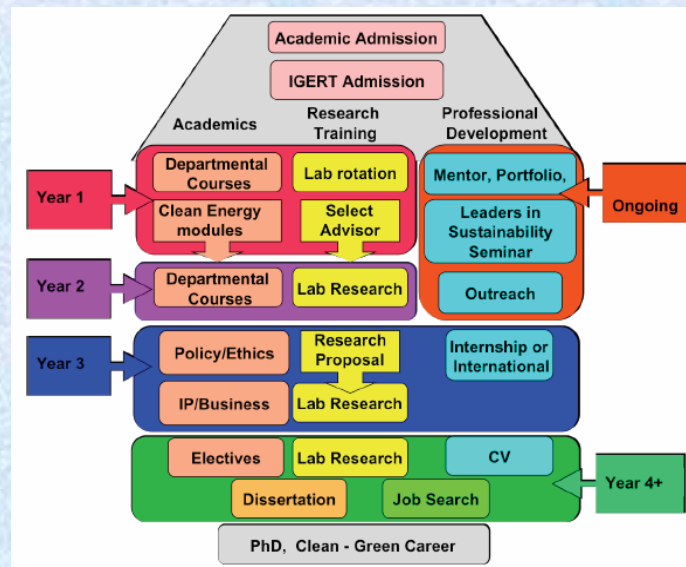


Megali Delmas, Co-PI
Assoc. Prof., IOE



Yang Yang, Co-PI
Prof., MSE

IGERT Fellowship Flow Chart



- ★ Each fellow's participation includes academic, research training and professional development with scientific, business and policy emphasis.
- ★ Program features include clean energy lecture, laboratory and seminar-based curriculum, internships or international experience, business development and small company opportunities along with community involvement activities in K-12.

For further information please **contact:**

Prof. D.L.Huffaker, huffaker@ee.ucla.edu



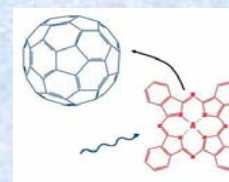
IGERT: Clean Energy for Green Industry (Clean-Green) at UCLA



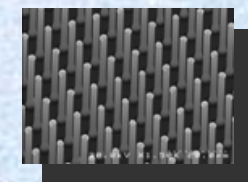
Solar cells



Capacitive storage



Organic materials



Metamaterials

Technology

★ Energy Harvesting

- Solar cells, TPVs, Biofuels
- Thermoelectric and wind energy
- Nanomaterials, quantum dots, wires

★ Energy Storage

- New batteries using Sol-Gel methods
- 3-Dimensional microscale batteries
- Electrochemical “Super Capacitors” using CNTs

★ Energy Conservation

- Top-down analysis of campus power generation.
- Design of residential and commercial buildings using smart windows, cool paint and thin film reflective coating for roof and car tops
- Combined PV and solar collectors for distributed heat and power generation

CGI Mission Statement

★ **Clean-Green** IGERT (CGI) at the University of California, Los Angeles (UCLA) is designed to train U.S. Ph.D. scientists and engineers for leadership roles in the clean energy sector – industry, government and University – through integrated research, education and service.

★ CGI is tasked to impact economic growth in the City of Los Angeles. Emphasis is placed on developing new business opportunities through university intellectual property and highly trained workforce.

★ The Clean-Green IGERT addresses the urgent societal challenge of meeting increasing energy needs without further negatively affecting the environment/

★ Community programs are design to educate and involve future scientists and leaders in K-12.

Fellowship Benefits

- ★ \$30K annual stipend
- ★ Registration fees
- ★ Laboratory fees
- ★ Tuition
- ★ Medical insurance
- ★ Conference travel
- ★ Internship
- ★ International experience

Participating Departments

- ★ Electrical Engineering
- ★ California NanoSystems Institute (CNSI)
- ★ Institute of the Environment
- ★ Materials Science & Engineering
- ★ Mechanical & Aerospace Eng.
- ★ Biomolecular Engineering
- ★ Chemistry & Biochemistry
- ★ Center for Eng. Excellence and Diversity
- ★ Anderson School of Management