KIC KICKOFF

9:00 AM   Welcome
          David Skorton, President of Cornell

9:10 AM   Introductory Remarks
          Fred Kavli, Chairman, The Kavli Foundation

9:15 AM   Introduction to Research at KIC
          Paul McEuen, Director of KIC, Physics

9:30 AM   Putting the Electron’s Spin to Work
          Dan Ralph, Physics

9:45 AM   Manipulating Light Using Nanophotonics
          Michal Lipson, ECE

10:00 AM  New Eyes for Atomically Accurate Nanostructures
          Jiwoong Park, C&CB

10:15 AM  COFFEE BREAK

10:30 AM  Microvascular Structure & Function in vitro
          Abraham Stroock, C&BE

10:45 AM  Imaging Atomically Engineered Materials
          David Muller, Co-Director of KIC, AEP

11:00 AM  Creating New Quantum Materials
          Darrell Schlom, MS&E

Poster Session and Reception
4:30 PM 401 PSB
History: KIC 1.0

A conversation...
What is the future of nano?
What does nano need?

Greenland, June 2007

Electron Microscopy Workshop
Cornell July 2006

Kavli Futures Symposium
The merging of bio and nano
— towards cyborg cells

Director, Robert Richardson
Advisor, John Silcox

Founded in 2004
The biggest roadblocks in nanoscience stem from inadequate tools.

Needed: instruments for integrated nanoscale imaging and dynamical control

Binds together all nanoscience investigators
KIC 2.0
March 2010

Judy Wilson
Assistant to Director, KIC
Managed through LASSP

Kavli Instrumentation Grants
Kavli Postdoctoral Fellows
Kavli Photon Facility
KIC POSTDOCTORAL FELLOWS: CALL FOR APPLICATIONS

KIC POSTDOCTORAL FELLOWS are high-profile, two-year postdoctoral positions with significant independence and resources. The KIC Fellows program is designed to attract the best and brightest young researchers in nanoscale science to Cornell. Fellows will work in partnership with Cornell faculty.

Next Deadline October 11, 2011

CLASS OF 2010

Matt Graham (Park and McEuen)
New nanoscale spectroscopies

Yih-Fan Chen (Erickson and Lipson)
Optofluidic Nanomanipulation

KIC PDs funded either fully or jointly with faculty member

4-6 steady state
(2-3 per year)
KIC INSTRUMENTATION PROJECTS: CALL FOR APPLICATIONS

KIC INSTRUMENTATION PROJECTS will support the purchase, development, and use of novel scientific tools and approaches for probing the nanoscale. Projects/equipment must be designed to push the state-of-the-art of imaging and measurement science, and typically will be leveraged by proposer

Next Deadline July 11, 2011

A SAMPLING FROM OF PROJECTS IN 2010...

Mid-IR broadband nanophotonics
Gaeta and Lipson

Integrated Approach for Probing New Quantum Materials
Davis, Schlom, Shen
KIC Laboratories
Nano Photon Facility

Matt Graham
KIC PD Fellow

Henry Wen
Sufei Shi
KIC Nano Photon Facility

ultrafast photocurrent

stimulated microscopy

nano-photonics switch

KIC
Kavli Institute at Cornell
Cutting-edge facilities

KIC PD Fellows

KIC Instr. Projects

12 faculty (so far)

7 Departments across campus
KIC 2.1
May 2011

be a part of KIC 2.2!