

PHYSICS AND RELATED FIELDS

Mondays at 4:00 p.m.

Schwartz Auditorium - Rockefeller Hall

Refreshments 3:40 -3:50 p.m.

Fall 1999 Schedule

Aug. 30 -

Randall D. Kamien - University of Pennsylvania

Title: Liquid Crystalline Phases of DNA

Sept. 6

Sara A. Solla – Northwestern University

The Dynamics of Learning from Examples

Sept. 13

Anton Zeilinger - University of Vienna, Austria

Quantum Teleportation and the Nature of Information

Sept. 20

Thomas Gold Lecture Series

Bohdan Paczynski – Princeton University

Gravitational Microlensing and the Search for Dark Matter

Sept. 27

Carlos Rovelli – University of Pittsburgh and Centre de Physique

Theorique de Luminy, France

Non Perturbative Quantum Gravity

Oct. 4

Eric Siggia – Cornell University

Gauge Theory and the Yeast Genome

Oct. 11

Fall Break

Oct. 18

Edward Blucher – University of Chicago

Investigating Difference between Matter and Antimatter

Oct. 25

Venky Narayanamurti – Harvard University

Condensed-Matter and Materials Physics: Basic Research for Tomorrow's
Technology

Nov. 1

Kieval Lecture

Steve Vogel – Duke University
Locating Life's Limits with Dimensionless Numbers

Nov. 8

Edward Kearns – Boston University
The Mysteries of Missing Neutrino's with sub-title, Latest Results from Super-K

Nov. 15

Paul Steinhardt – University of Pennsylvania
The Quintessential Universe

Nov. 22

Dan Ralph – Cornell University
Torques and Tunneling in Nano-Magnets

Nov. 29

William Phillips – NIST
Almost Absolute Zero: The Story of Laser Cooling and Trapping

Spring 2000 Schedule

Jan 24

Patrick Lee – Massachusetts Institute of Technology
Heisenberg Model and d-wave Superconductivity: Spin Chirality Finally
Coming out of Hiding

Jan. 31

Laura H. Greene – University of Illinois at Urbana-Champaign
Tunneling into High-Temperature Superconductors: Spectroscopy of Broken
Symmetries

Feb. 7

Jean Carlson – University of California at Santa Barbara
Complexity and Robustness

Feb. 14

Sue Coppersmith – University of Chicago
Force Fluctuations in Granular Materials

Feb. 21

Brian Greene – Cornell University
String Theory and the Fabric of Spacetime

Feb. 28

Ira Wasserman – Cornell University
The Expansion of the Universe

Mar. 6

Michael Devoret – Yale University

Single Electron Transfer in Tunnel Junction Circuits

Mar. 13

Sebastien Balibar – Ecole Normale Supérieure (Paris) and Harvard University

Nucleation: Bubbles, Crystals and Superfluids

Mar. 20

Spring Break

Mar. 27

Wendy Freedman – Carnegie Observatory

The Hubble Space Telescope Key Project to Measure the Hubble Constant

Apr. 3

Joseph Veverka – Cornell University

Exploring Eros: The First Detailed Spacecraft Study of an Asteroid

Apr. 10

Sir Michael Berry – Bristol University and Andrew D. White Professor-at-Large

Extreme Twinkling, and its Opposite

Apr. 17

Lars Bildsten - University of California at Santa Barbara

Gravitational Radiation from Accreting Neutron Stars: Implications for Millisecond Pulsar Formation and LIGO

Apr. 24

Joseph D. Lykken – Fermi National Accelerator Laboratory

The Search for Extra Dimensions

May 1

Dan Akerib – Case Western Reserve

Looking for WIMPs in the Galactic Halo: The Cryogenic Dark Matter Search

May 8

BETHE LECTURE

Steve M. Block – Stanford University

Sensory Transduction: Clever Physics by Dumb Organisms

Fall 2000 Schedule

Aug. 28

Hans Bethe – Cornell University

Gamma-Ray Bursts and Hypernovae

Sept. 4

Donald Umstadter – University of Michigan at Ann Arbor

Ultra-High Intensity Laser-Plasma Interactions: Progress, Prospects and Applications

Sept. 11

Barbara Hope Cooper Lecture

Ellen D. Williams – University of Maryland
Fluctuations and Stability of Nanostructures

Sept. 18

Andrew Strominger – Harvard University
String Theory and Black Holes

Sept. 25

Thomas Gold Lecture Series

Clifford Will – Washington University
Einstein's Relativity put to Nature's Test: A Turn-of-the-Century Perspective

Oct. 2

Joint with Nonlinear Systems

Leo Kadanoff – University of Chicago
Making a Splash, Breaking a Neck: The Development of Complexity in Physical Systems

Oct. 9

Fall Break

Oct. 16

David Muller – Bell Labs, Lucent Technologies
How Small is Too Small? Understanding the Electronic Structure of Atomic-Scale Transistors

Oct. 23

Z. Jane Wang – Cornell University
Unsteady Aerodynamics of Insect Flight

Oct. 30

Andy Ruina – Cornell University
The Possible Physics (Mechanics) of Walking

Nov. 6

John Ruhl – University of California at Santa Barbara
Cosmology from the Microwave Background: Boomerang and Beyond

Nov. 13

Joint with Astronomy

Dave Stevenson – California Institute of Technology
Origin of the Earth and Moon

Nov. 20

Barbara Jacak – SUNY, Stonybrook
High-Energy Heavy Ion Collisions: The Physics of Super-Dense Matter

Nov. 27

Daniel P. Lathrop – University of Maryland
Liquid Sodium Laboratory Models of the Earth's Outer Core

Spring 2001 Schedule

Jan. 22

Robert F. Gilmour, Jr. – Cornell University
Electrical Restitution and Cardiac Fibrillation

Jan. 29

Eanna Flanagan – Cornell University
Unstable Rossby Modes in Newly Born Neutron Stars

Feb. 5

Francis J. DiSalvo – Cornell University
The Search for New Thermoelectric Materials or How Does a Condensed Matter Physicist Exploit Chemistry

Feb. 12

Charles Marcus – Harvard University
Small Electronics and Quantum Chaos

Feb. 19

Raman Sundrum – John Hopkins University
Extra Dimensions, the Hierarchy Problem and Gravitational Resonances at Particle Colliders

Mar. 5

Sidney Redner – Boston University
The Statistical Mechanics of Popularity

Mar. 12

Joint with Peace Studies Program and Science and Technology Studies

Jeremiah Sullivan – University of Illinois at Urbana-Champaign
Prospects for the Comprehensive Test Ban Treaty

Mar. 26

Richard Galik – Cornell University
Measurements of the Michel Parameters in Lepton Decays

Apr. 2

Glennys Farrar – New York University
Ultra-High Energy Cosmic Rays: Astrophysics Causing Trouble for Particle Physics, or Vice Versa?

Apr. 9

Anupam Garg – Northwestern University
Spin Tunneling: Magnetic Molecules and Mathematical Mysteries

Apr. 16

BETHE LECTURE

Wick C. Haxton – University of Washington
Solar Neutrinos and Neutrino Oscillations

Apr. 23

BETHE LECTURE

Wick C. Haxton – University of Washington
Supernovae and Nucleosynthesis

Apr. 30

Hal Evans – Columbia University
The DO Experiment: Now...and Later

Fall 2001 Schedule

Sept. 3

Edwin Salpeter – Cornell University
Heavy Elements in the Galaxy and Tuberculosis in the USA

Sept. 10

Sol Gruner and Maury Tigner – Cornell University
Energy Recovery Linac

Sept. 17

Josh Klein – University of Pennsylvania
The Sudbury Neutrino Observatory and the Solar Neutrino Problem

Sept. 24

Juan Maldacena – Harvard University
QCD, Strings and Black Holes: The Large N Limit of Field Theories and Gravity

Oct. 1

Salpeter Lecture Series

John Carlstrom – University of Chicago
A New Measurement of Cosmic Microwave Background Anisotropy from the South Pole

Oct. 8

Fall Break

Oct. 15

Sidney Redner – Boston University
The Statistical Mechanics of Popularity

Oct. 22

Kieval Lecture

Eric Cornell – NIST
Artifice and Equilibrium: Experiments with Synthetic and Natural Vortices in a Superfluid Gas

Oct. 29

Ray Goldstein – University of Arizona
TBA

Nov. 5

J.C. Seamus Davis – University of California at Berkeley
Using Individual Impurity Atoms to Study High- T_c

Nov. 12

Richard L. Liboff – Cornell University
Quantum Billiards and Quantum Chaos

Nov. 19

No Seminar

Nov. 26

A.J. Stewart Smith – Princeton University
Observation of CP Violation at the B Factories

Dec. 3

David Hammer – Cornell University
Studies of Extremely High Energy Density Plasmas with Picosecond Time Resolution

Spring 2002 Schedule

Jan 21

Matthias Neubert – Cornell University
Flavor Delicacies (A Tour Trough the Mysteries of Matter)

Jan. 28

Riccardo Giovanelli – Cornell University
Into Thin Air: The Atacama Telescope Project

Feb. 4

Dong Lai – Cornell University
Matter and Radiation in Superstrong Magnetic Fields

Feb. 11

Barbara A. Baird – Cornell University
A Biophysical View of Immune Receptor Action

Feb. 18

Serge Lemay – Delft University
Two-Dimensional Imaging of Electronic Wavefunctions in Carbon Nanotubes

Feb. 25

BETHE LECTURE

Stanford Woosley – University of California at Santa Cruz
Core Collapse Supernovae

Mar. 4

BETHE LECTURE

Stanford Woosley – University of California at Santa Cruz
Type Ia Supernovae

Mar. 11

Hitoshi Murayama – University of California at Berkeley
Big World of Small Neutrinos

Mar. 18

Spring Break

Mar. 25

Joint with Cornell Libraries

Marty Blume – Editor in Chief, APS
The Physical Review and Physics Publishing: Past and Future

Apr. 1

Lawrence Krauss – Case Western Reserve University
Life, the Universe, and Nothing: The Future of Life in an Expanding Universe

Apr. 8

Csaba Csaki – Cornell University
The Physics of Extra Dimensions

Apr. 15

Susanne Arney – Bell Labs., Lucent Technologies
Design for Reliability of MEMS/MOEMS for Lightwave Telecommunications

Apr. 22

Thomas Gold Lecture Series

Frank Shu – President, Tsinghua University, Hsinchu, Taiwan
Protostellar Winds and Jets

Apr. 29

Karel Svoboda – Cold Springs Harbor
Imaging Synaptic Function in the Brain

Fall 2002 Schedule

Sept. 2

Katepalli Sreenivasan – Yale University
Cosmic Background Radiation and Hydrodynamic Turbulence

Sept. 9

Mark Chen – Queens University, Kingston, Ontario, Canada
Solving the Solar Neutrino Problem with the Sudbury Neutrino Observatory

Sept. 16

Paul McEuen – Cornell University
Electronics and Mechanics with Single Molecules

Sept. 23

David Huse – Princeton University
Quantum Phase Transitions in Randomly Inhomogeneous Solids

Sept. 30

Nima Arkani-Hamad – Harvard University
Adventures in Theory Space

Oct. 7**BETHE LECTURE**

Carl E. Wieman – University of Colorado at Boulder
Resonant BEC

Oct. 14**Fall Break****Oct. 21****Parratt Memorial Lecture**

Stuart Raby – Ohio State University
The Puzzle of Charge and Mass

Oct. 28

Lawrence Gibbons – Cornell University
Probing HEP's Bose-Einstein Condensate: The Physics Potential of a Linear e^+e^- Collider

Nov. 4

Matthew P.A. Fisher – University of California at Santa Barbara
Cuprates Amiss: Subtle Simplicity or a Matted Mess

Nov. 11

Krishna Rajagopal – Massachusetts Institute of Technology
The Condensed Matter Physics of QCD

Nov. 18

Allen MacDonald – University of Texas at Austin
Ferromagnetism in Diluted Magnetic Semiconductors

Nov. 25

Avi Loeb – Harvard University
The First Source of Light in the Universe

Dec. 2

David DiVincenzo – IBM, T.J. Watson Research Center
Prospects for Quantum Computation

Spring 2003 Schedule

Jan. 20

Kurt Gottfried - Cornell University
Title: P.A.M. Dirac and the Discovery of Quantum Mechanics

Jan. 27

Naomi Makins - UIUC
Title: Spin Structure of the Proton: Recent Results from HERMES

Feb. 3

Dr. V. Sahakian - Cornell University
Title: String Theory without Equations

Feb. 10

Paul Selvin - University of Illinois, Urbana-Champaign
Title: Nanometer Resolution with Single Molecule Fluorescence Imaging:
Application to Biomolecular Motors

Feb. 17

Henry Kelly - President of the Federation of American Scientists
Title: The Future of National Science Policy

Feb. 24

Nitin Samarth - Pennsylvania State University
Title: Semiconductor Spintronics

Mar. 3

Lynn Orr - University of Rochester
Title: Why is the Top Quark Special, and How Can We Exploit It?

Mar. 10

Mats Selen - University of Illinois
Title: Education in Bulk: The Introductory Physics Courses Revisions at
Illinois

Mar. 17 - SPRING BREAK

Mar. 24

Bert Halperin - Harvard University
BETHE LECTURES
Title: One-Dimensional Metals in Theory and Experiment

Mar. 31

Hasam Padamsee - Cornell University

Title: Will Superconductivity Propel the Next-Generation Accelerators?

Apr. 7

David Spergel - Princeton University

Title: MAP First Year Results: Implications for Cosmology

Apr. 14

Aida El Khadra - University of Illinois, Urbana-Champaign

Title: The Charm and Beauty of Lattice QCD

Apr. 21

Daniel Gauthier - Duke University

Title: Controlling Cardiac Dynamics

Apr. 28

Shri Kulkarni - California Institute of Technology

Salpeter Lecture Series

Title: Gamma-Ray Bursts: Brilliant Explosions Across the Universe

Fall 2003 Schedule

Sept. 8

Michelle Wang - Cornell University

Title: Probing Gene Expression and regulation at the Single Molecule Level

Sept. 15

Stuart Freedman - University of California at Berkeley

Title: First Results from KamLAND

Sept. 22

Eshen Ben-Jacob - Tel Aviv University

Title: Why Bacteria Go Complex: Higher Flexibility for Better Adaptability

Sept. 29

Scott A. Diddams - National Inst of Standards, Boulder, Colorado

Title: Optical Atomic Clocks: Science and Metrology on the Femtosecond Time Scale

Oct. 6

Martin Schmaltz - Boston University

Title: New Physics at the LHC: Maybe the Little Higgs

Oct. 13 - FALL BREAK

Oct. 20

Qun Shen - Cornell University

Title: X-Ray Imaging and Microscopy Applications and Future Opportunities with an ERL Source

Oct. 27

Carlos Bustamante - University of California at Berkeley

Title: Grabbing the Cat by the Tail: Studies of the Packaging of DNA by Single Ph29 Bacteriophage Particles using Optical Twizers

Nov. 3

Valery Nesvizhevsky - Institute Laue - Langevin, France

Title: Quantum States of Neutrons in the Gravitational Field, Short-Range Forces and Interaction of Ultracold Neutrons with Nanoparticles

Nov. 10

Boris Altshuler - Princeton University and NEC Laboratories-America

Title: Disorder + Interactions in Electronic Systems

Nov. 17

Bob Ecke - Los Alamos National Laboratory

Title: Granular Chains: Knots, Random Walks and Statistical Mechanics

Nov. 24

Jim Cordes - Cornell University

Title: The Radio Universe: Arecibo and Next Generation Radio Telescopes

Dec. 1

Gerald Gabrielse - Harvard University

Title: Observations of Cold Antihydrogen and Fundamental Measurements

Spring 2004 Schedule

Jan. 26

Gerry Jackson - Hbar Technologies, LLC

Title: Chasing the Dream of Antimatter Commercialization

Feb. 2

Harold Rose - LBL - Government

Title: State and Prospects of Aberration-Corrected High-Resolution Energy-Filtering Electron Microscopes

Feb. 9

Gabriela Gonzalez - Louisiana State University

Title: Gravitational Waves: New Eyes for Physics and Astronomy

Feb. 16

Greg Landsberg - Brown University

Title: Out-of-This World Physics: Probing Quantum Gravity in the Lab

Feb. 23

Abraham Stroock - Cornell University

Title: Patterning Microflows

Mar. 1

Sivan Kartha - Stockholm Environment Institute's Climate Program

Title: The Carbon-Hydrogen Bond: How Strong is the Interaction between Global Warming and the "Hydrogen Economy?"

Mar. 8

Subir Sachdev - Yale University

Title: Quantum Phase Transitions: From Mott Insulators to the Cuprate Superconductors

Mar. 15

Joanna Aizenberg - Bell Laboratories, Lucent Technologies

Title: Lessons in Optics from the Deep

Mar. 22 - SPRING BREAK

Mar. 29

Charles Townes - University of California

Thomas Gold Lecture Series

Apr. 5

Viet Elser - Cornell University

Title: Phase Retrieval with Atoms, Bits and Pixels

Apr. 12

Bruce Winstein - University of Chicago

Bethe Lectures

Title: The Allure of the Neutral Kaons

Apr. 19

Bruce Winstein - University of Chicago

Bethe Lectures

Title: Searching for Patterns in the Polarization of the Cosmic Microwave Background Radiation

Apr. 26

David Spergel - Princeton University

Kieval Lecture

Title: WMAP and Beyond: Implications of Microwave Background Observations

May 3

Andrea Ghez - University of California at LA

Salpeter Lecture Series

Title: Unveiling a Supermassive Black Hole at the Center of Our Galaxy

FALL 2004 Schedule

Aug. 30

Bruce Knuteson - Massachusetts Institute of Technology

Title: Searching for a Guaranteed Surprise: Systematic Analysis of Frontier Energy Collider Data

Sept. 6

No Seminar Today

Sept. 13

Juan Carlos Campuzano - University of Illinois

Title: What Does Photoemission Tell us About the Electrons in High Temperature Superconductors?

Sept. 20

Cumrun Vafa - Harvard University

Title: Quantum Foam and Melting Crystal

Sept. 27

Daniel Kleppner - Massachusetts Institute of Technology

Title: Can A Boost-Phase Intercept System Assist Missile Defense?

Oct. 4

David R. Nelson - Harvard University

Title: Spherical Crystallography: Virus Buckling and Grain Boundary Scars

Oct. 11 - FALL BREAK

Oct. 18

Albert Libchaber - Rockefeller University

Bethe Lectures

Title: Some Physical Aspects of the Origin of Life and of Artificial Cells

Oct. 25

Albert Libchaber - Rockefeller University

Bethe Lectures

Title: From Physics Techniques to Biological Observation

Nov. 1

Peter Lepage - Cornell University

Title: The Fall and Rise of Lattice QCD, Part II: High-Precision Lattice QCD Confronts Experiment

Nov. 8

Roy Briere - Carnegie Mellon University
Title: First Results from CLEO-c and CESR-c

Nov. 15

Michael Peskin - Stanford University
Title: The International Linear Collider: The Next Step in High-Energy Electron-Positron Physics

Nov. 22

Sidney Nagel - University of Chicago
Title: Physics and the Breakfast Table

Nov. 29

Geoff Marcy - University of California at Berkeley
Thomas Gold Lecture Series
Title: The Properties of Planetary Systems

Spring 2005 Schedule

Jan. 24

Dung-Hai Lee - University of California at Berkeley
Title: From Landau Order to Topological Order

Jan. 31

No Seminar

Feb. 7

Ben Widom - Cornell University
What's New with Gibb's Adsorption Equation

Feb. 14

Steve Squyres - Cornell University
Title: Science Results from the Mars Exploration Rover Mission

Feb. 21

Wolfgang Ketterle - Massachusetts Institute of Technology
Title: Bose-Einstein Condensation of Atoms, Molecules, and Fermion Pairs

Feb. 28

Alexander Szalay - Johns Hopkins University
Title: Large Scale Structure of the Universe

Mar. 7

Jonathan L. Rosner - Enrico Fermi Institute - University of Chicago
Title: The Buzz of B's - News of the Fifth Quark

Mar. 14

Buford Price - Berkeley University

Kieval Lecture

Title: Interconnectedness of Science: 10¹² eV Neutrinos, Climate, Volcanism, and Life in Ice

Mar. 21 - SPRING BREAK**Mar. 28**

Majorie Shapiro - University of California at Berkeley

Why Does the *W* have Mass? Prospects for Uncovering the Source of Electroweak Symmetry Breaking

Apr. 4

Matthias Troyer - Swiss Federal Institute of Technology, Zurich, Switzerland

Title: Simulating Quantum Phase Transitions: From Quantum Magnets to Ultra-Cold Atomic Gases

Apr. 11

Ian Shipsey - Purdue University

Title: Bringing Hearing to the Deaf - Cochlear Implants: A Technical and Personal Account

Apr. 18

Michel Devoret - Yale University

Title: The Quantronium: A Quantum-Mechanically Coherent Electrical Circuit Behaving Like An Atom

Apr. 25

Jainendra Jain - Pennsylvania State University

Title: Composite Fermions: Why They Are and What They Do

May 2

Victoria Kaspi - McGill University

Salpeter Lecture Series

Title: Magnetars

FALL 2005 Schedule**Sept 5**

No Seminar

Sept. 12

Gary Westfall - Michigan State University

Kieval Lecture

Title: Recent Results from RHIC: Towards a Better Understanding of

Polymer-Induced
Frag Reduction

Sept. 19

Dung Hai Lee - University of California at Berkeley
Title: How to Block Nature's Tendency to Order

Sept. 26

Pierre Ramond - University of Florida
Title: Sunshine at Midnight

Oct. 3

Stephen Olsen - University of Hawaii

Parratt Lecture

Title: Homeless Mesons

Oct. 10 - FALL BREAK

Oct. 17

Donald M. Eigler - IBM Almaden Research Center

Bethe Lectures

Title: Information Transport and Computation in Nanometer-Scale Structures

Oct. 24

Donald M. Eigler - IBM Almaden Research Center

Bethe Lectures

Title: Single-Atom Spin-Excitation Spectroscopy

Oct. 31

Karin A. Dahmen - University of Illinois - Urbana-Champaign

Title: Crackling Noise and Disorder: Learning from Magnets and Earthquakes

Nov. 7

John Spence - Arizona State University and Lawrence Berkeley National Labs

Title: Diffraction from a Beam of Laser-Aligned Proteins, and some Cavendish History

Nov. 14

Neal Lane - Rice University

Title: The Future of U.S. Science - Storm Clouds on the Horizon

Nov. 21

John Reppy - Cornell University

Title: The Search for the Super Solid

Nov. 28

Paul Chaikin - New York University

Title: Jammed Ellipsoids Beat Jammed Spheres: Experiments with Candies, Colloids and Crystals

Spring 2006 Schedule

Jan. 23

Sarah Eno - University of Maryland
Title: The LHC Adventure

Jan. 30

Amir Yacoby - Weizmann Institute of Science, Rehovot, Israel
Title: Coherent Control and Manipulation of Two-Electron Spin States

Feb. 6

David Weitz - Harvard University
Title: Dripping, Jetting, Drops, and Wetting: The Magic of Microfluidics

Feb. 13

No Seminar Today

Feb. 20

Philip Kim - Columbia University
Title: Quantum Electrodynamics at your Pencil Tips: Dirac Fermion in Graphite

Feb. 27

A. Douglas Stone - Yale University
Title: Einstein's Unknown Insight and the Problem of Quantizing Chaotic Motion

Mar. 6

Amber Miller - Columbia University
Title: Peeking in Ancient Holes and Seeking the Holy Grail

Mar. 13

Maxim Perelstein - Cornell University
Title: Electroweak Symmetry Breaking

Mar. 20 - SPRING BREAK

Mar. 27

Gary Horowitz - University of California at Santa Barbara
Title: Spacetime in String Theory

Apr. 3

Barry C. Barish - California Institute of Technology
Title: Probing the Universe for Gravitational Waves

Apr. 10

Lene Hau - Harvard University

Title: Frozen Light

Apr. 17

Avi Loeb - Harvard University

Salpeter Lecture Series

Title: The Frontier of 21cm Cosmology: Probing Reionization As Well As The Inflationary Initial Conditions

Apr. 24

Eberhard Bodenschatz - Cornell University

Title: The Cornell Experiments on Fluid Turbulence

May 1

Sunil Golwala - California Institute of Technology

Title: The Search for WIMP Dark Matter

May 8

Harold Shapiro - Princeton University

Title: Particle Physics at the Crossroads: Charting the Course for Elementary Particle Physics in the 21st Century

FALL 2006 Schedule

Aug. 28

Bill Louis - Los Alamos National Laboratory

Title: Searching for Neutrino Oscillations with MiniBooNE

Sept. 4

No Seminar

Sept. 11

Mark Trodden - Syracuse University

Title: Gravitational Approaches to Cosmic Acceleration

Sept. 18

Kerry Emanuel - Massachusetts Institute of Technology

Title: Is Global Warming Increasing Hurricane Activity?

Sept. 25

Persis Drell - Stanford University

Title: GLAST: The Gamma Ray Large Area Space Telescope

Oct. 2

Csaba Csaki - Cornell University

Title: Searching for the Mechanism of Electroweak Symmetry Breaking

Oct. 9 - FALL BREAK

Oct. 16

David Gross - Kavli Institute for Theoretical Physics, UC at Santa Barbara

Bethe Lectures

Title: The Search for a Theory of Fundamental Reality: The Theory of Elementary Particles

Oct. 23

Ziao-Gang Wen - Massachusetts Institute of Technology

Title: An Origin of Light, Fermions, and Gravity

Oct. 30

Henry Greenside - Duke University

Title: Songbirds and Synfire Chains

Nov. 6

Greg Boebinger - Florida State University

Title: Levitation, Superconductivity, and the World's Largest Magnets

Nov. 13

Michael Oppenheimer - Princeton University

Title: How Warm is Too Warm? Global Warming, Sea Level Rise, and the Future of the Polar Ice Sheets

Nov. 20

Neil Ashby - National Institute of Standards and Technology

Title: Relativity in the Global Positioning System

Nov. 27

Daniel Fisher - Harvard University

Title: Is Evolution Understood? Quantitative Questions from a Statistical Mechanic

Spring 2007 Schedule

Jan. 22 - Special Physics Colloquium

Daniel Freedman - Cornell University

Title: Empirical Insights from a Physicist's Year as a Grunt in Iraq

Jan. 29

Lisa Randall - Harvard University

Kieval Lecture

Title: Searching for Warped Geometry at the LHC

Feb. 5

Saul Teukolsky - Cornell University

Title: Black Holes and Gravitational Waves

Feb. 12

Steve Peggs - Brookhaven National Lab.

Title: Accelerator Science at the LHC Frontier

Feb. 19

Angela Olinto - University of Chicago

Title: New Era in UHE AstroParticle Physics

Feb. 26

Carl Bender - Washington University - St. Louis

Title: Making Sense of Non-Hermitian Hamiltonians

Mar. 5

Lars Bildsten - UC at Santa Barbara

Title: Explosions in Accreting White Dwarfs: From Classical Novae to Supernovae

Mar. 12

BETHE LECTURE

Joe Polchinski - Kavli Institute for Theoretical Physics - UC at Santa Barbara

Title: Gauge/Gravity Duality: From Black Holes to the Bethe Ansatz

Mar. 19

Spring Break

Mar. 26

Richard Packard - UC Berkeley

Title: Superfluid Weak Links: Physics and Applications

Apr. 2

Salpeter Lecture Series

Jonathan Lunine - University of Arizona

Title: The Past, Present and Future of Methane of Titan

Apr. 9

Matthew Pritchard - Cornell University

Title: Imaging SubCentimeter Ground Deformation from Space

Apr. 16

Richard L. Garwin - IBM T.J. Watson Research Center

Title: A Major Expansion of Nuclear Power to Gight Global Warming? Problems and Prospects."

Apr. 23

Michael Riordan - University of California

Title: US Big-Science Lessons from the SSC

Apr 30

NO PHYSICS COLLOQUIUM:
ALTERNATIVE:
Harold Varmus
Subject: Science, Policy and Education