Yale Geology & Geophysics Alumni Reunion Nov 6-9, 2009
Our Reunion Chair: Elisabeth Vrba
Indispensable: G&G Chair’s Assistant: Becky Pocock
Very new faculty (2007-2010)
Newly minted Full Professors
Recent retirements
Successes in graduate recruiting
Example: 2008 entering class: 20 in one year
Recent expansions: Physics & Chemistry of the Earth’s Deep Interior
Atmosphere, ocean, and climate physics

Recent expansions

Atmosphere, ocean geochemistry, and paleoclimate
Yale Participating Units

- Faculty of Arts & Sciences
- Geology & Geophysics
- Chemistry
- Molecular Biophysics & Biochemistry
- Ecology & Evolutionary Biology
- Economics
- Political Science
- Anthropology
- Sociology
- Astronomy
- Physics

- School of Forestry & Environmental Studies
- School of Engineering & Applied Science
  - Mechanical Engineering
  - Chemical Engineering
- School of Epidemiology & Public Health
- School of Law
- School of Management
- School of Medicine
- School of Architecture
School of Engineering and Applied Science
Lisa Pfisterle
Marshall Long
Abbas Firoozaabadi
Paul Fleury
Menachem Elimelech
Kyle Vanderlick
Daniel Rosner
Mitchell Smooke
Robert Graber
Alessandro Gomez
William Mitchell
Julie Zimmerman
Joseph Pignatello
Jordan Peccia
Robert McGraw
Yehia KhalilUuan
De La Mora

Physics
Meg Urry
Tom Appelquist
Sean Barrett
Richard Easther
Jack Harris
Andreas Heinz
Simon Mochrie
Peter Parker
Volker Werner
Yoram Alhassid

G&G
Ronald Smith
John Wettlaufer
Hagit Aijfel
Karl Turekian
Mark Pagani
Steven Sherwood
Alexey Fedorov
Elisabeth Vrbka
Zhengrong Wang
Edward Bolton

Derek Briggs
Jeffery Park
Mark Brandon
Jacques Gauthier
David Bercovici
Leo Hickey
Danny Rye
David Evans
Brian Skinner
Ruth Blake
George Veronis

Chemistry
Gary Brudvig
Paul Anastas
Robert Crabtree
Mark Johnson
Victor Batista
John Tully
Charles Schmuttenmaer

EEB
Michael Donaghue
Gunter Wagner
David Post
Melinda Smith
David Shelly
Paul Turner
Jeffrey R. Powell

Astronomy
Sabatino Sofia
Jeffrey Kenney
Sarbani Basu
Pierre Demarque

Law
Daniel Esty

FES
Peter Raymond
Robert Mendelsohn
Xuhui Lee
Rob Baillie
Tom Graedel

James Sayers
Shimon Anisfeld
Mark Ashton
Michelle L. Bell
Graeme P. Berlyn
Ellen Brennan-Galvin
Margaret Chertow
Lisa Curran
Oswald J. Schmitz
Mary Evelyn Tucker
William Ellis
Bradford S. Gentry
John Grim
Alan Brewster
Robert Repetto
Florence Montagnini
Anthony Leiserowitz
Stephen R. Kellert
Lloyd C. Irland
Arnulf Gruber
Tim Gregoire
Gus Speth
Fred Strebeigh
Michael Dove
John Wargo
Kalyanakrishnan Sivaramakrishnan

Epidemiology and Public Health
Durand Fish
James Childs
Ted Holford
Yongtao Guan
Maria Diuk-Wasser
Alison Galvani

Department of Near Eastern Languages and Civilizations
Harvey Weiss

Anthropology
Richard Bribiescas

Office of Sustainability
Julie Newman

MBB
Scott Strobel
Funded Workshops

- Incorporating Black Carbon Mitigation in Developing Countries into the International Climate Regime: Bringing Together Science, Policy and Implementation.

- The Impacts of Abrupt Climate Changes on Human Societies: Past and Future.

- Host, Vector, and Pathogen Responses to Climate Change.

- From process to proxy – the mechanisms behind paleo-temperature assessments.
1. Experimental studies of thermodynamics, kinetics and mechanics of carbonation of ultramafic rocks for CO₂ storage and the economic evaluation of their applications.

1. Late Holocene Paleoclimate Reconstruction and Long-Term Human Response in the Region of Timbuktu, Mali (West Africa): Interdisciplinary collaboration in the study of Lake Faguibine and the drought-affected populations.

1. Developing and Marketing Improved Cook-Stoves for Rural Bangladesh.

1. Global warming impacts on CT salt marshes ecosystems and consequent effects on salt marsh vulnerability to sea level rise.

1. Land surface properties, regional climate feedbacks and urban adaptations.

1. Metabolic Flux Analysis for the Biosynthesis of Fuel Hydrocarbons.
Other Activities

- YCEI Seminar Series
- YCEI co-sponsoring COP15 side event
  - University-City collaboration on climate response
- YCEI Clean Energy Conference, April 23, 2010
- YCEI Postdoctoral Fellowships
- YCEI Student Congress
Future Directions - Geology & Geophysics

- **Evolution of Earth's crust and surface**
  - tectonics, structural geology,
  - stratigraphy, geochronology
  - Tectonics in deep time
  - Surface-climate interactions

- **Exchange between Earth's crust, surface and atmosphere:**
  - petrology, volcanology, sedimentology,
  - natural resources,
  - volatile exchange,
  - carbon cycle, carbon sequestration.

- **The Biosphere and History of Life:**
  - Palentology and geomicrobiology,
  - Deep time micropaleontology;
  - Co-evolution of Earth and life;
  - Interaction of life with solid Earth, ocean, atmospheres, and climate.