Dear GeoGrads,

It is with great pleasure that we welcome you back to campus for Princeton University's first Graduate School departmental reunion! As this program highlights, a week of activities has been organized to enhance your return to Old Nassau.

The conference features presentations and panel discussions by faculty from the Department of Geosciences as well as eminent graduate alumni; casual opportunities over lunch and dinner to network with and meet fellow alumni; and poster sessions highlighting current graduate student and postdoctoral research.

Details for the three-day excursion in the Appalachian Mountains and the day trip to Sterling Hill Mining Museum can be found in these pages.

A special thanks is extended to Ed Cotter *63, Laurel Goodell *83, Lincoln Hollister, Jeroen Tromp *92, and Don Wise *57 for their joint efforts in organizing Princeton University’s first reunion for GeoGrad alumni.

I hope you enjoy your time reconnecting with old friends, colleagues and mentors, as well as revisiting favorite places on campus and hearing about today’s geosciences program at Princeton.

Best wishes,

**Bess Ward**

*William J. Sinclair Professor of Geosciences*

*Chair, Department of Geosciences*

Note: * refers to graduate alumni of Princeton University
**Schedule**

**Sunday, April 29**  
**PRE-CONFERENCE EVENT**  
10 a.m.-5 p.m. Canoe and kayak day trip in the New Jersey Pine Barrens. Vans depart from Baker Rink.

**Monday, April 30**  
**CONFERENCE, Frist Campus Center and Guyot Hall**  
**REGISTRATION,** Frist Multipurpose Room Lobby (Level B)  
Coffee and breakfast available until 9 a.m.

9 a.m. **WELCOME REMARKS,** Frist Multipurpose Room (Level B)  
*Evolution and the Future of the Department of Geosciences*  
Bess Ward  
William J. Sinclair Professor of Geosciences, Chair of Department of Geosciences, Princeton University

9:15 a.m. **PANEL DISCUSSION,** Frist Multipurpose Room (Level B)  
*Today’s Geosciences Department at Princeton University*  
MODERATOR  
Bess Ward  
PANELISTS  
Tullis Onstott ’81, Professor of Geosciences, Princeton University  
Allan Rubin, Professor of Geosciences, Princeton University  
Adam Maloof, Assistant Professor of Geosciences, Princeton University

10 a.m. **POSTER SESSION FEATURING GRADUATE STUDENT AND POSTDOC RESEARCH,** Guyot Hall PEI Atrium  
Refreshments available in Guyot Great Hall.

11 a.m. **PANEL DISCUSSION,** Frist Multipurpose Room (Level B)  
*Climate and the Environment*  
MODERATOR  
Daniel Sigman  
Dusenbury Professor of Geological and Geophysical Sciences, Princeton University
Schedule

**PANELISTS**

**Susan Brantley** ’80 *’87, Distinguished Professor of Geosciences, Director of the Earth and Environmental Systems Institute, Pennsylvania State University

**Meredith Hastings** ’04, Assistant Professor of Geological Sciences, Brown University

**Stephen Fueglistaler**, Assistant Professor of Geosciences, Princeton University

12 p.m. **LUNCH**, Frist Multipurpose Room (Level B)

1:30 p.m. **PANEL DISCUSSION**, Guyot Hall Room 010

*Geophysics Today*

**MODERATOR**

**Jeroen Tromp** ’92
Blair Professor of Geology, Professor of Applied and Computational Mathematics and Director of the Princeton Institute for Computational Science and Engineering, Princeton University

**PANELISTS**

**Frederik Simons**, Assistant Professor of Geosciences, Princeton University

**Richard Allen** ’01, Director of the Seismological Laboratory and Associate Professor of Earth and Planetary Science, University of California-Berkeley

**Karin Sigloch** ’08, Assistant Professor of Geophysics, University of Munich

2:30 p.m. **POSTER SESSION FEATURING GRADUATE STUDENT AND POSTDOC RESEARCH**, Guyot Hall PEI Atrium

Refreshments available in Guyot Great Hall.

3:30 p.m. **PANEL DISCUSSION**, Guyot Hall Room 010

*Geology Today*

**MODERATOR**

**Blair Schoene**
Assistant Professor of Geosciences, Princeton University

**PANELISTS**

**John Shaw** ’93, Professor and Chair of Earth and Planetary Sciences, Harvard University

**Lisa Pratt** ’82, Professor of Geological Sciences, Indiana University

Christopher Andronicos ’99, Associate Professor of Earth and Atmospheric Sciences, Cornell University

4:30 p.m. **BREAK AND/OR APPALACHIAN FIELD TRIP ORIENTATION**, Guyot Hall Room 010

5:30 p.m. **RECEPTION**, Prospect House Drawing Room and Library

6:30 p.m. **DINNER**, Prospect House Garden Room

**Tuesday, May 1**

**Thursday, May 3**

**FIELD TRIP ACROSS THE APPALACHIANS:**

**SUSQUEHANNA CROSS-SECTION OF THE APPALACHIANS FROM THE PIEDMONT TO THE COAL REGIONS** led by

**Ed Cotter** ’63, Professor Emeritus of Geology, Bucknell University

**Don Wise** ’57, Professor of Structural Geology, University of Massachusetts-Amherst

8 a.m. Bus departs from Baker Rink. For details, please refer to the Field Trip page.

**Friday, May 4**

**TRIP TO STERLING HILL MINING MUSEUM**, http://sterlinghillminingmuseum.org

8 a.m. Bus departs from Baker Rink.

3 p.m. **TOUR OF GUYOT HALL**, Guyot Great Hall

Guided tour of Guyot Hall and laboratories led by geosciences graduate students.

4 p.m. **POSTER SESSION AND TEA TIME**, Guyot Great Hall

Geosciences faculty, staff and graduate students invite 2012 GeoGrad Reunion participants as special guests at the department’s weekly cocktail hour tradition. Wine, beer and hors d’oeuvres will be served.

6 p.m. **DINNER**, Prospect House Garden Room
Field Trip

SUSQUEHANNA CROSS-SECTION OF THE APPALACHIANS: FROM THE PIEDMONT TO THE COAL REGIONS

Tuesday, May 1 DEPART PRINCETON, approximately 8 a.m.
Bus departs from Baker Rink.

Logistical Details:
• Overnight stay in Lancaster, Pa., on Tuesday, May 1, and Lewisburg, Pa., on Wednesday, May 2.
• Transportation and support will be provided compliments of Princeton's Department of Geosciences.

Geological and Cultural Details: The group will traverse a cross-section of the Appalachians from the Piedmont into the Valley and Ridge Province. The group also will get a glimpse of the Pennsylvania Dutch culture of Lancaster County. Stops have been chosen with mobility and time constraints in mind.

First Half of Trip: Led by Don Wise '57, the group will travel across the Pennsylvania Piedmont, and into the Valley and Ridge. Geologic understanding of the region has deepened significantly in the past few years, especially as a result of many new radiometric and fossil dates that now allow separation in both time and space of multiple phases of deformation that swept progressively across the Piedmont. The geology will center on three major themes:
• The early Paleozoic edge of Laurentia;
• Thin-skinned nappe tectonics of the Taconian Orogeny in contrast to basement-involved, regional nappes of the Alleghanian Orogeny; and
• Origins of the Pennsylvania Salient of the Appalachians.

Second Half of Trip: Led by Ed Cotter '63, this portion of the trip will focus on stratigraphy and structures of the Valley and Ridge province, and work influenced by former Princeton faculty members Al Fischer, Franklyn Van Houten '41, John Maxwell '46 and Sheldon Judson '40:
• The Devonian Catskill formation showing Milankovitch coastal and fluvial cycles, with evidence of paleohydrology, paleosols and paleo-CO₂; and
• Bear Valley Strip Mine, the classic and spectacular exposure that documents six stages of Alleghanian deformation.

Pennsylvania Dutch aspects will include:
• The tourist extravaganza of Intercourse includes an Amish woodshop, a Mennonite and Amish quilt store, and/or a Mennonite kitchen store with samples and sales of preserved foods.
• Roots, a nontourist, once-a-week auction with numerous outdoor vendors selling a variety of food, livestock, gadgets and other treasures.

Thursday, May 3 RETURN TO PRINCETON, approximately 6 p.m.