People

Anthony Grafton, Andrew W. Melton Professor of History, and Edward Witten, visiting lecturer with rank of professor in physics, have been elected to the American Philosophical Society.

Three seniors — Ariane Lourie, Eric MacGillvray and Addis Mason — and three Princeton graduates are among the 85 winners of 1993 Andrew Mellon Fellowships in Humanities Studies. The alumni are Benjamin Berger and Florence Hsia, Class of 1990, and Robert Oppenheim ’91. The program supports seniors and recent graduates in the humanities, with the goal of encouraging them to become members of the humanities faculties of American colleges and universities. According to the Mellon Foundation, 120 people who have received these fellowships since 1982 already hold faculty positions; some 80 are working toward PhDs.

Norman John Sollenberger Professor of Engineering Masanobu Shimozuka has been elected an honorary member of the American Society of Civil Engineers.

Two-week issue

This issue of the Princeton Weekly Bulletin covers two weeks, May 31 through June 13. The copy deadline for the next issue, which will cover the two-week period June 14 through 27, is June 4.

Lemonick book features Princeton scientists

Light at the Edge of the Universe, which was published this spring, is Michael Lemonick’s first book. It grew out of a 10-year career as a science writer — three years for Science Digest, seven years for Time Magazine.

"When I first started covering cosmology and astronomy in the early '80s," Lemonick recalls, "there was a feeling that things were coming together, that we were about to have the big answers about the universe. Instead, a series of studies began to cast doubt on the theories that were so promising. It seemed that the more we looked, the less we understood."

Lemonick’s goal for Light at the Edge of the Universe, he says, was to write a book that presents the embattled theories and current dilemmas in a format “any interested, intelligent reader can understand.”

His writing brings the science alive by focusing on the scientists, who create, debate, modify and replace the theories.

It was his good fortune that one of the “three or four places in the country to write a book on cosmology” happened to be his home town — Princeton.

“The people here were incredibly helpful,” he says. “Whenever I asked to go along on an observing trip, they were happy to let me go and to take the time and trouble to explain things. When I told [astrophysics professor] John Bahcall I was doing the book, he invited me to the famous Tuesday Lunch at the Institute for Advanced Study. I went nearly every week for almost a year and learned an enormous amount.”

Many of the scientists Lemonick interviewed for the book were people he had been hearing of for years, first growing up in Princeton as the son of physics professor Aaron Lemonick and later when he returned to town as an adult after graduating from Harvard with a degree in economics, (“I would have gone to Princeton,” he says, “but my father was dean of the Graduate School at the time, and it was just a little too close to home.”)

Lemonick decided he wanted to be a science writer while earning his master’s degree at Columbia University School of Journalism. “I always read science — science magazines, the science sections of the papers, science fiction books,” he says. Now he has a dozen Time cover stories to his credit, including two winners of AAAS Westinghouse Awards (one on high-temperature superconductors, the other on particle physics). His most recent cover story (April 26) was on dinosaurs.

“Native Voices, Native Ground”

American Indian faculty speak from experience at alumni college in Santa Fe

By Caroline Moseley

“Native Voices, Native Ground” was the title of an Alumni College that drew more than 60 participants to Santa Fe, N.M., April 29 through May 2, to consider the “American Indian in the 21st Century.”

Directed by Alfred Bush, Firestone Library’s curator of Western Americana and historic maps, this college was notable for its lecturers: in addition to members of the Princeton faculty, a group of American Indian alumni uniquely qualified by personal experience and professional training to discuss the past, present and future of America’s native peoples. They conveyed an immediacy of experience rare in any lecture hall.

“We didn’t just get facts, we got feeling,” observed Alumni College participant Sandy Lasaro, wife of a member of the Class of 1960.

Comanche, Lakota, Pueblo, Apache

Comanche Kevin Gover ’78, for example, who is partner in an Albuquerque law firm, gave the Alumni College group an overview of U.S. government policy toward native populations. He described what he called “environmental paternalism,” whereby “state governments say ‘We can’t allow Indians to do anything on their reservation that would destroy their way of life.’”

Lily Shangreaux ’74, a Lakota and co-owner of a Santa Fe nonprofit film and video production company, discussed the significance of women in native cultures, a position she says diminished with the coming of Europeans to the continent. Her talk for the advent of Europeans, which is usually referred to as the Encounter, was “the Invasions — Pueblo Lorene Reano ’75, who works with the Indian Health Service, described the Pueblo concept of health as “exercising the potential to live so that all aspects of being — body, mind and spirit — are in harmony.” She characterized native treatments as “exchanges” that involve patient and community participation and noted that Western medicine is often not effective in American Indian populations because it is nonparticipatory.

Jecarilla Apache Yolanda Gomez ’88, an epidemiologist with the Department of Pediatrics of the University of New Mexico School of Medicine, spoke of the post-Encounter “decimation of my people by infectious diseases.” Concerned about the increase on the reservations of chronic medical conditions such as heart disease, cancer, diabetes and alcoholism, she stressed the importance of preventive medicine. American Indians, she noted, have the highest rate of diabetes of any ethnic group in the United States, with a progressively lower age of onset.

Language in many forms

Navajo poet and teacher Rex Lee Jim ’86 read from his works in English and in

Inside

2-3 Ten professors retire
4-6 Calendar, including Reunions, Commencement
7 Art Museum exhibits
The following professors are transferring to emeritus status this academic year: Marvin Bresler of the Sociology Department, Carl Brown of Near Eastern Studies, Richard Challener of History, Enoch Durbin of Mechanical and Aerospace Engineering, and Dwork of Mathematics. Val Fleif of Physics, Andre Maman of Romance Languages and Literatures, and Marks of Near Eastern Studies, Richard Schmid of Computer Science, and Robert Werner of the School of Engineering and Operations Research.

Marvin Bresler, who joined the Sociology Department after Williams Strauss Professor of Social Sciences, has studied and taught undergraduate and graduate courses on the influence of education on social behavior, the impact of society on ideas, and the history and development of sociological theory. In recent years, he says, his intellectual interest has focused on the "empirical basis of moral behavior."

A 1947 graduate of Temple University, Bresler earned his AM and his 1952 PhD at the University of Pennsylvania, where he was assistant professor for the next five years. In 1957 he joined the tenured faculty at New York University, where he was promoted to professor in 1960 and serves as chair of the department of educational sociology. As Princeton Bresler was chair of the Council on Human Relations from 1963 to 1967. In the early 1970s he chaired the Princeton Committee on the Future of the College, which produced a 1973 report widely known as the "Bresler Report," a comprehensive study of undergraduate education at Princeton. Among other things, Bresler notes, this report led to the introduction of the sex-blind admission policy.

Chair of the Sociology Department for 20 years from 1971, Bresler was also a long-time member of the Committee on Appointments and Advancements and was instrumental in shaping the Teacher Preparation Program.

An honorary member of the Class of 1982, he is unofficial ambassador to the basketball team. In retirement, Bresler says, he plans to "think profoundly about thoughts in Princeton and elsewhere." As director of Near Eastern Studies, Garnett Professor in Foreign Affairs L. Carl Brown studies the modern period of the Middle East and North Africa, with special emphasis on the confrontation between the Western world and this area during the past two centuries.

In the 1950s Brown spent six years with the Foreign Service in London and the Sudan. In 1962 he completed his PhD in history and Middle Eastern studies at Harvard and taught there before joining Princeton's faculty as an associate professor in 1966. Three years later he became dean of the faculty in Near Eastern Studies and chair of the Department of Near Eastern Studies. In 1970 he was promoted to the rank of professor and named to the Garrett Professorship. Coauthor of Tunisia: The Politics of Modernization (1964), Brown wrote The Tunisian of Ahmad Bey (1975) and International Politics in the Middle East: Old Rival, Dangerous Game (1984). He edited several books, including Studies and Society in Independent North Africa (1966), From Madina to Meccropolis: Carl Brown Heritage and Change in the Near Eastern City (1973), and Sociological Dimensions of Near Eastern Studies (with N. Izkovitz, 1977). Center-Stage: American Diplomats and the Arab States (1990), and Modernization in the Middle East: The Ottoman Empire and its Afro-Asian Successors (with C.E. Black, 1992).

Brown has served as president of the Middle East Studies Association and on the boards of directors of the Institute of Current World Affairs and the Middle East Institute. He plans to remain in Princeton to write an interpretive study of American involvement in the Middle East since World War II and to edit a book on the Arab-Israeli legacy in the modern Middle East.

Professor of History Richard Challener specializes in 18th and 19th-century American diplomatic and military history. A member of Princeton's Class of 1944, he served with the British Army in the European Theater from 1943 to 1946 before returning to Princeton to graduate in 1947. He joined the Princeton faculty in 1949 and earned his PhD from Columbia University in 1952. Appointed associate professor in 1959 and professor in 1964, he has twice chaired his department. From 1958 to 1966 he was assistant dean of the college, since 1966 he has been Clerk of the Faculty. He also chairs the Committee on Princeton University Press.

In 1989, under the auspices of the U.S. Information Agency and the German Marshall Foundation, Challener coordinated a conference on American foreign policy at universities in Switzerland and West Germany; in 1990 the U.S. Information Agency sponsored a similar lecture tour in Canada.

Among the many courses Challener has taught is History of American Foreign Policy From the Age of Imperialism to the Present, which has consistently been one of the most heavily enrolled courses offered by the department. His publications include Admirals, Generals and American Foreign Policy, 1908-1914 (1975) and The French Tradition of the Nation in Arms: 1666-1919 (1955). He edited two collections of documents published from 1978 to 1980, United States Military Intelligence, 1911-1927 (30 vols.) and The Senate Foreign Relations Committee, Executive Sessions, 1913-1953 and 1947-1950 (10 vols.), as well as From Isolation to Containment: Three Decades of American Foreign Policy from Harding to Truman (1970) and National Security in the Nuclear Age (with G.B. Turner, 1980).

An authority on John Foster Dulles, Challener was a frequent principal on the John Foster Dulles Oral History Project, recording interviews with national and world leaders for the University's Dulles Center. He is currently at work on a biography of Dulles, as well as a collection of the secretary's speeches and articles.

Committed to the concept of continuing education, Challener has taught at the Princeton Lecture Series and directed or lectured at numerous Aluminum Colleges. As professor emeritus, he plans to continue as director of the Class of 1946 Studies Program, Understanding Our Times (1946-1996) and to teach in the fall a freshman seminar on the Cold War in which students will do original research in Princeton's collections of documents. Other projects include an oral history in connection with the University's upcoming 250th anniversary and, in 1994, an Alumni College (with Andre Maman) in France coinciding with the 50th anniversary of the Normandy invasion.

Enoch Durbin, professor of mechanical and aerospace engineering, is a specialist in the area of innovation and design, analysis of dynamic engineering data, instrumentation, measurement, and control. In recent years he has concentrated on the development of alternative fuels, fuel economy and pollution control in the internal combustion engine.

A 1943 graduate of St. Louis College of New York, Durbin received his MS from Rensselaer Polytechnic Institute in 1947. Before coming to Princeton in 1978, Durbin was a researcher at NASA's Hopkins Applied Physics Lab, the Instrument Division of the National Advisory Committee for Aeronautics and at the Aerosciences Lab of the North American Aviation Co. in California. Durbin came to Princeton in 1953 as a senior research associate. "I was going to give academia three years and then go back to something "real,"" he says. "But I discovered that I could stay here and change jobs continually, that I could move on to new subjects when I recognized new opportunities. I think that’s the beauty of the academic career."

He was named professor in 1965. Durbin has been a visiting professor at Stanford University, and he has initiated and conducted research at NASA Ames Laboratory and Stanford Telecommunications Laboratory, Harlow, England.

A consultant to the North Atlantic Treaty Organization and gekin editor of the Flight Test Manual Series, he has been consultant and adviser to many U.S. government and NATO military organizations. During 1980-81 he founded and became the first director of the Alternative Fuel Laboratory of the University of British Columbia, focusing on the development of methanol as a motor fuel.

In 1990-91 he helped establish the National Center for Alternate Transportation Fuels at West Virginia University.

A founder of the Research Conference in Instrumentation Sciences, Durbin has been a research and vice president for education and research of the Instrumentation Society of America. He is a fellow of the American Association for the Advancement of Science.

Durbin is also known as the inventor of the "Durbin tennis racket," one of many devices for which he holds patents in the United States and abroad. An avid player himself, he designed the racket to relieve stress on the player’s elbow.

Among his future plans, Durbin is working for the establishment of a center for entrepreneurial engineering at Princeton, and he is developing engines that can run on gaseous fuels and thus produce less pollution. "I really don’t have any plans to diminish my activities," Durbin says. "I’ve never been as productive as I’ve been these last 10 years."

Enoch Durbin, Eugene Higgins Professor of Mathematics, joined the Princeton faculty in 1955 as a full professor in 1962.

In his early work Durbin pioneered the application of analytic methods to the algebraic geometry of real algebraic varieties over finite fields. He was awarded the Cole Prize of the American Mathematical Society for proof of the rationality of the zeta function of an algebraic variety over a finite field.

His work on zeta functions led him to reconsider the classical theory of ordinary differential equations from the point of view of p-adic analysis. In the early 1970s he saw that differential equations with irregular singular points were fundamental to the study of the p-adic algebro-geometric landscape.

His books are Lectures on Differential Equations (1983) and Generalized Hypergeometric Functions (1990).

Dwork came late to mathematics. His 1942 bachelor’s degree from the City of Princeton Weekly Bulletin (USPS-445-080) Editor: Sally Freedman Associate editor: Caroline Moseley Calendar and production editor: Carolyn Geller Staff writer: Denise Applewhite, Robert P. Matthews The Bulletin is produced weekly during the academic year and published bimonthly when the University is in recess and during exam weeks, by the Office of Communications and Public Affairs, Sunnystone Hall, Princeton University, Princeton NJ 08544. Second class postage paid at Princeton. Postmaster: Send address changes to Princeton Weekly Bulletin at that address. Permission is granted to adapt, reprint or excerpt material from the Bulletin without attribution for use in other media.
Arguments for and against...
Monday
May 31

Notices
 Noon: Alcoholics Anonymous meeting. Membership not required to attend. West Room, Murray-Dodge.

Wednesday June 2

Lectures
Noon: Molecular Biology graduate student colloquium. Steve West and Kogin Yang Grog. 003 Thomas Lab.

Notice
7:30 p.m. Go Club meeting. 101 Computing Center. For information call Rick Mott, 924-7310 or 466-1602.

Thursday June 3

Arts
8:00 p.m. Theatre Intime play. Aboh Furgard: Master Harold ... and the boys. Theater, Murray-Dodge. For reservations call 258-4400.

Lectures
4:00 p.m. Molecular Biology seminar. "Biochemical Analysis of Transcription by RNA Polymerase II." James Kadonaga, University of California, San Diego
003 Thomas Lab.

Notice
8:15 p.m. Overseers Anonymous meeting. 201 Burr.

Reunions
 Noon to 2:00 p.m. International Center lunch. West Room, Murray-Dodge.
4:00 to 6:00 p.m. Women's Studies open house. Lounge, Dickinson.
5:00 p.m. to midnight. Alcoholics Anonymous open meeting. West Room, Murray-Dodge.
7:00 p.m. Trivia Night for Princeton Fraternity. Faculty Room, Nassau.

Friday June 4

Arts
7:20 p.m. Film Festival. Big Wood Auditorium, McConv.
8:00 p.m. Theatre Intime play. Aboh Furgard: Master Harold ... and the boys. Theater, Murray-Dodge. Reception for Theatre Intime alumni follows. For reservations call 258-4950.
8:00 p.m. Triangle Show. Shelf Indulgence. McCarter Theatre. Onstage reception follows.
8:00 p.m. WPBC concert. Joan Shepard. Richardson Auditorium, Alexander. For information call 258-3655.
9:00 p.m. Film Festival. City Slickers. Wood Auditorium, McConv.
11:00 p.m. Tigerfelles Arch Sing. Blair Arch.
11:30 p.m. Roaring 20 Arch Sing. McCosh Arch.
Midnight: Nassongs Arch Sing. Blair Arch.

Lectures
11:00 a.m. Alumni-Faculty forum. "Looking for God: New Quora and Old Has." David Cain '63, Chris Faglitt '68, R. David Hoffelt '73, Margaret Stein Aron '83, and Robert Gibbs, moderator. Dods Auditorium, Robertson.
1:00 p.m. Alumni-Faculty forum. "American Markets and the Quadrant of Free Trade." Peter Benoff '53; W. James Bontchen '58; Gordon Wu '58; Michael Otten '63; Stanley Sienkiewicz '68, and Gene Grossman, moderator. Helm Auditorium, McCosh.
1:30 p.m. Alumni-Faculty forum. "Reconciling Environmental Priorities and the Market." Anthony White '58; Alan Patterson '63; Tom Mineo '66; Peter Laff '73; Mark Bassett '77; and Simon Levin, moderator. Dods Auditorium, Robertson.
2:00 p.m. 50th Reunion Class of 1943 forum. "Aging and Memory, Stress and the Mind." Paul Gold, University of Virginia; Annette Price.

3:30 p.m. Alumni-Faculty forum. "The Downside of Downsizing Business." Gene Buckingham '64; Randolph Hobler '68; Jeffrey Perry '68; Michael Ryan '68, Wayne McCleugh '73; and Charles Berry, moderator. Wood Auditorium, McCosh.
3:30 p.m. Geological and Geophysical Sciences seminar. 155 Reception follows, main foyer, Guyot.
4:00 p.m. Alumni-Faculty forum. "Banking in the '90s." Benjamin Edwards '53; Edgar Jannotta '53; John Boaweigh '58; Marc Lackritz '58; Paul Van de Water '68; and Ben Bernanke, moderator. Helm Auditorium, McCosh.
4:00 p.m. Women's Center/Gender Relations Team panel. "Gender Relations at Princeton: What I Wish I Knew Then." Betts Auditorium, School of Architecture.

Reunions
 Noon to 8:00 p.m. Friends of Golf Campbell Trophy golf tournament. Springdale Golf Club. For reservations call 258-3511 or 924-3109.
 Noon to 8:00 p.m. Career Services open house. Clio.
9:00 a.m. to 9:00 p.m. Computing and Information Technology demonstrations. Room G, Prospect.
9:00 a.m. to noon. Outdoor Action whitewater film series. 66 McCosh.
9:00 a.m. to 9:00 p.m. Rare Books and Special Collections introduction to the collections. Firestone. Gallery tour at 10:30 a.m.
9:30 to 11:30 a.m. Outdoor Action exploring the woodlands. 66 McCosh.
10:00 a.m. to noon. Outdoor Action climbing wall. Armony, canoeing on Lake Carnegie, 66 McCosh; and team building course. 66 McCosh.
10:30 a.m. Ladies Auxiliary of Isabella McCosh Informal meeting. Coffee at 10:00 a.m. McCosh Health Center.
10:30 a.m. and 2:00 p.m. Plasma Physics Lab tour. Forrestal.
11:00 a.m. to 4:00 p.m. ROTC open house. Armony.
11:00 a.m. Tour of Drumhackett (official residence of N.J. governor). 344 Stockton St.
Noon. Alumni Council luncheon meeting. Madison Hall, Rockefeller College. Reception at 11:00 a.m. Firestone Lounge, Rockefeller College.
Noon to 2:00 p.m. Outdoor Action mountain climbing film series. 66 McCosh.

 Noon to 3:00 p.m. Princeton in Asia open house. 224 Palmer.
 Noon to 5:00 p.m. Outdoor Action hike. 66 McCosh; canoeing on Lake Carnegie, 66 McCosh; and team building course.
5:00 p.m. Alumni-Faculty forum. 60 McCosh.
1:00 to 6:00 p.m. Outdoor Action climbing wall. Armony.
2:00 to 4:30 p.m. Friends of Baseball workout. Strubing Field. Reception follows, Clarke Field.

Roads close for Reunions, graduation
The main campus will be closed to all vehicles except those with Reunions passes from 8:00 a.m., June 3 through 8:00 a.m., June 6. On June 5 from 5:00 a.m. to 3:00 p.m. the campus will be closed to all vehicles except those with Commencement passes. For information call 258-3157.

 Noon to 5:00 p.m. Friends of Tennis open house and tournament. Lens Center.
2:00 to 4:00 p.m. Outdoor Action rock climbing film series. 66 McCosh.
3:15 p.m. Dedication of William G. Bowen '55 Hall. Prospect Avenue behind Third World Center.
3:30 p.m. Princeton Mine Co. reception. Rocky classroom, Rockefeller College.
4:00 p.m. Dante reunion seminar and reception for all former and graduating students of Robert Hollander's course. Terrace, Paragon XJ, 79-119; XII, 64-69.
121 East Pyne. Reception follows, Library, Maclean House.
4:00 to 5:30 p.m. Outdoor Action campus tree tour. 66 McCosh.
4:00 to 8:00 p.m. Outdoor Action nature film series. 66 McCosh.
4:00 p.m. SVC reception/Special Reunions Project meeting. East Room, Murray-Dodge.
4:00 p.m. Teacher Preparation Program open house. 224 West College.
5:00 p.m. Alcoholics Anonymous Haven open meeting. West Room, Murray-Dodge.
5:00 p.m. Association of Princeton Graduate Alumni sculpture run. Whig.
7:00 p.m. to midnight. Gay and Lesbian Alumni reception. Cafe, Murray-Dodge.
7:00 to 9:00 a.m. Outdoor Action film. Nepal: The Mountain Kingdom. 64 McCosh.
7:00 p.m. Prayer for Princeton worship. Faculty Room, Nassau.
8:00 p.m. Association of Black Princeton Alumni reception. Second Floor Lounge, Butler College, Wu.
Saturday June 5

Arts
7:30 p.m. Film Festival, Charlotte’s Web, Wood Auditorium, McCosh.
7:30 p.m. 7th Class Club Chapel Choir alumni concert honoring Walter N. Murray ’51 and his memory of Wil Parker ’56. Music by Brahms, Schubert, and other composers. Master of Ceremonies, Vincent A. Nollner ’92; and A.J. Stewart Smith ’66, moderator. A10 Jadwin. 4:30 p.m. Alumni-Faculty Forum: “The Purpose of Literature Now.” Edmund Chemeris ’58, Galway Kinnell ’48 and William Morris, moderator. 4:30 p.m. Alumni-Faculty Forum: “What Makes a Good Professor?” Alexander Hargrave ’68, Louise O’Brien ’82; and Odry Ashenfelter ’70, moderator. 5. Robertston.

Reunions
8:00 a.m. Friends of Track meet. West Roos, Murray-Dodge.
8:00 to 10:00 a.m. Princeton-Cadets Fellowship continental breakfast. Joseph Williamson, East Room, Murray-Dodge.
9:00 a.m. Friends of Track 5K run. Murray-Dodge.
9:30 a.m. (all-day). Alcoholics Anonymous Headquarters open. Meeting at 5:00 p.m. Weeden Hall, 4th floor. 9:30 a.m. Alumni soccer game. Bedford Field.
10:00 a.m. Alumni lacrosse game. Finney Field.
10:00 a.m. to 2:00 p.m. American Whig-Chatham debate and brunch. Senate Chamber, Whig.
9:00 p.m. Friends of Football meeting. Steve Trosche, 4th Reunion site. Dodge-Osborne.
11:00 to 11:30 a.m. Friends of Track meet and reception. West Room, Murray-Dodge.

Reunions passes
Faculty and staff who wish to receive Reunions passes must fill out a form and pay $10 per pass per night. For forms and information call 258-3573.

Sunday June 6

Arts
10:00 a.m. Friends of Wrestling meeting. Hamilton Courtyard.
10:00 a.m. to noon. Outdoor Action hiking, 60 min. Princeton Wall, Armory; canoeing on Lake Carnegie, 60 McCosh; and team building course, 60 McCosh.
10:00 a.m. Physics Department coffee. Lobby, Jadwin.
10:00 a.m. P-7 March marshals meeting to confirm assignments and pick up hats. Donuts and cofee. Maclellan House.
10:45 a.m. to noon. Baseball; Softball; and Military ROTC exercises for Water Resources. Faculty Room, Nassau. Receptions follow.
10:00 a.m. Senior Sing. Blair Arch (Dillon Gym in case of rain).

Baccalaureate processional
For the Baccalaureate service, the academic procession will form as follows: seniors, in pairs, on the walk in the rear of Nassau Hall, the head of the column facing East Pyne, at 1:30 p.m. (Firestone Library Reference Room in case of rain; enter by door on west side of library, not front entrance); and ticketless, in the order of graduation or faculty in the Microfilm Library, main floor, Firestone Library at 1:45 p.m.

The procession will move promptly at 1:55 p.m.

Baccalaureate service begins at 2:00 p.m. in the University Chapel. Seating is limited; tickets required for those inside and outside seating. Seating begins at 1:15 p.m.

The Baccalaureate service will be broadcast live in Wood Auditorium, McCosh, which is wheelchair accessible. Tickets are not required as seating is limited. Seating begins at 1:00 p.m.

2:00 p.m. Baccalaureate Service. Garry Tradeau, co-host. Chapel. 4:30 p.m. Agnus Institute Roman Catholic mass for seniors and families. Vincent Keane. Chapel. 7:30 p.m. Baptismal Chapel service. Michael Argus ’75. Chapel. Reception for seniors, West Room, Murray-Dodge.
9:00 p.m. Episcopal service of Holy Eucharist for Class of 1993. Frank Stratton ’67 Chapel.

Monday June 7

Lectures
2:00 p.m. Geophysical Fluid Dynamics seminar. “Biases in the Measurements of Precipitation Over the Globe.” David Legates, University of Oklahoma. 209 GFES, Forrestal.

Notices
6:30 to 10:15 a.m. Butler College buffet breakfast for seniors and families. Dining Hall, Wilcox.
8:30 a.m. Princeton Parents Association continental breakfast for volunteers. Maclean 140.
9:30 a.m. Phi Beta Kappa Society induction. Richards Auditorium. 10:30 a.m. Clauson Seminars. Cannon Green (Dillon Gym in case of rain).
11:00 a.m. Alumni-Graduates Society. Coffee and conversation. Membership not required to attend. West Room, Murray-Dodge.
11:00 a.m. Class of 1993 luncheon for parents and guests. Alexander Green (residential college dining rooms in case of rain; 5:00 p.m. Alumni Center).
1:30 to 6:00 p.m. Departmental and program receptions. Announcement of academic awards for seniors and families, departmental faculty and guests (see page 6 for listing of departmental receptions).

Class Day procession
Seniors gather at 9:50 a.m. in front of the Art Museum and line up across McCosh Walk behind Whig Hall (Dillon Gym in case of rain). Procession will move at 10:15 a.m.

2:00 p.m. Lynde Prize senior debate. Science Center.
2:30 to 3:30 p.m. Operation Matress. Bedding and key pickup. Lilly, Dillon Gym.
5:00 p.m. Officer Induction and Air Force ROTC exercises for award of commissions. Faculty Room, Nassau. Receptions follow.
10:00 a.m. Senior Sing. Blair Arch (Dillon Gym in case of rain).

Religion
9:00 a.m. Prayer for Princeton worship. Faculty Room, Nassau.
10:00 a.m. University Chapel service. Joseph Williamson.

Tuesday June 8

Arts

Notices
10:00 a.m. Operation Matress. Turn in keys and bedding. Dillon Gym.
10:00 a.m. Symphonic Band. Front lawn, Nassau. (Rain). 10:35 a.m. Academic procession.
11:00 a.m. Commencement. From lawn, Nassau (Jadwin Gym in case of rain).
11:00 a.m. Princeton Graduate Alumni Reception for graduate degree recipients. Maclellan Hall.
11:00 a.m. Forbes College luncheon for seniors and families. Dining hall, Forbes College.
11:00 a.m. International Center luncheon for seniors and families. Murray-Dodge.

6:00 p.m. Princeton Alumni Center luncheon for seniors and families. Dining hall, Rockefeller.
9:00 p.m. Stevenson Hall luncheon for seniors who were members of Stevenson 83 and 91 this academic year and families. Dining halls.
9:00 p.m. Wilson College luncheon for seniors and families. Wilcox.

Commencement paper 1993
For Commencement, the academic procession will form promptly as follows:

recipients of honorary degrees in the rear between Nassau Hall and Cannon Green, facing south, at 10:15 a.m.

candidates for bachelor’s degrees on the walk between West College and Cannon Green, facing west, at 10:15 a.m.

candidates for bachelor’s degrees at 10:15 a.m.

and administrators and faculty on the west between Nassau Hall and Cannon Green, facing West College, parallel to the candidates for bachelor’s degrees, at 10:15 a.m.

The procession will move promptly at 10:15 a.m.

In case of heavy rain, the procession will form in Jadwin Gym on the main floor, with undergraduates and graduate students, administrators and faculty assembling behind the speakers’ platform and move to Nassau Hall and Cannon Green on the south lawn of Jadwin Gym at 10:15 a.m. The change to rain location will be announced on WHWH, 1350 AM, 101.5 FM, and 920 AM. To inquire, call 258-3600, 258-2954 or 258-2944.

Receptions, June 8
Advisers for the Health Professions. 301 West College. 1:30 p.m.
Afro-American Studies. Seminar Room, 210 Dickinson. 3:00 p.m.
American Studies. Second floor lounge, Wu. 2:30 p.m.
Anthropology. Lounge, Buell. 4:00 p.m.
Architecture. Lobby, Architecture Building. 2:30 p.m.
Art and archaeology awards ceremony, 101 McCormick. 4:30 p.m.;
reception follows, lobby.
Astrophysical Sciences. Conference Room, Peyton. 4:30 p.m.
Chemistry. Tap Room, Prospect House. 4:00 p.m.
Classics. 103 East Pyne. 4:00 p.m.
Comparative Literature. Joseph Henry House. 4:30 p.m.
Computer Science. Tea Room, Computer Science Building. 4:00 p.m.
Creative Writing. Katenbach Room, 185 Nassau St. 3:00 p.m.
East Asian Studies. 202 Jones. 4:00 p.m.
Ecology and Evolutionary Biology. Rutvall, Student Center. 4:00 p.m.
Economics. Dining Room, Wilcox. 3:30 p.m.
Engineering School departmental awards for undergraduate and graduate students,
2:30 p.m.; Chemical Engineering, C205 E-Quad; Civil Engineering and
Operations Research, C217 and C225 E-Quad; Electrical Engineering, C207
E-Quad; and Mechanical and Aerospace Engineering and Princeton Materials
Institute, Auditorium, 2nd Floor; E-Quad; reception, Fryer, E-Quad, 3:15 p.m.
English. Wood Auditorium, McCosh. 4:00 p.m.; reception, McCosh Courtyard,
5:00 p.m.
Geological and Geophysical Sciences. West Foyer, Giyot. 5:00 p.m.
Germanic Languages and Literatures. Library, Prospect House. 2:00 p.m.
History, Upper Terrace, Forbes College. 3:30 p.m.
Latin American Studies. Seminar Room, Joseph Henry House. 2:00 p.m.
Mathematics. Eisenerath Lounge, Fine. 4:00 p.m.
Molecular Biology. 118 Lewis Thomas Lab. 3:00 p.m.
Music. Terrace, Woolworth Center. 4:30 p.m.
Near Eastern Studies. 102 Jones. 3:00 p.m.
Philosophy. Lounge, Tower Room. 1879. 4:00 p.m.
Physics. Ballantine Lounge and Joseph Henry Room, Jadwin. 3:30 p.m.
Politics. Princeton, Conwin. 2:30 p.m. (Lower lobby, Robinson in case of rain).
Psychology. Langfeld Lounge, Green. 4:00 p.m.
Religion. Drawing room and terrace, Prospect House. 4:30 p.m.
Romance Languages and Literatures. Lounge, Whig. 4:00 p.m.
Slavic Languages and Literatures. 201 East Pyne. 3:00 p.m.
Sociology, Maclean House. 4:15 p.m.
Teacher Preparation. 3rd floor lounge, West College. 2:00 p.m.
Theater and Dance. Acting Studio, 185 Nassau St. 2:30 p.m.
Visual Arts. Gallery, 185 Nassau St. 3:30 p.m.
Women's Center. 201 Burr. 3:00 p.m.
Women's Studies, 113 Dickinson. 2:00 p.m.
Woodrow Wilson School. Awards, Dodds Auditorium, Robertson. 3:30 p.m.
reception, Dining Room, Robertson. 4:15 p.m.
Santa Fe

(Continued from page 1)

Navajo. "Sacred language, this I am! I exist in many different forms," he read. By using the Navajo language, Jim said, Navajos could recapture "the beauty of kinship, not only with other people but with the land, with animals and with plants." At Rock Point Community School in Arizona, he plans to teach creative writing, comparative religion and play writing "entirely in Navajo."

The relationship between native language and cultural identity was stressed by several speakers, not all of whom speak the same native language. Regis Pecos '76, a Pueblo and executive director of New Mexico’s Office of Indian Affairs, highlighted the strained relations among "sovereign self-governing tribal nations," the states in which they exist and the federal government.

Navajos Roman Bitsue '78 and Larty Nez '81, both of the Navajo-Hopi Land Commission, presented the Navajo side of a continuing territorial dispute over parts of Arizona set aside by Congress for joint use by Navajo and Hopi peoples and more recently partitioned between them. According to Nez, 2,000 Navajo families have undergone relocation and only about 15 Hopi. Several Navajo families have contested the relocation, saying it violates freedom of religion, because "in the Navajo Way, practice of religion is tied to the land." But the Hopi continue to claim aboriginal rights, and the U.S. government supports their claim. "The tragedy of this issue," says Bush, "is that both points of view are legitimate."

Prayer in motion

Field trips allowed Alumni College participants to examine native art works at the Indian Arts Research Center of the School of American Research and to view (but not photograph) the annual Corn Dance at nearby San Felipe Pueblo. The Corn Dance, explained guide Elena Ortiz, expresses appreciation of the moisture and sun provided by nature. "It is a ceremony, not a performance. It is a prayer in motion. It begins when it begins, and it's over when it's over."

The ceremony was held in a large earthen plaza at the village center, surrounded by low adobe buildings, many with beehive-shaped outdoor ovens. An attentive crowd of several hundred, of whom the alumni were the only Anglos, gathered on the periphery. In the plaza were some 300 dancers, men and women, adults and children, in black and white garments trimmed with bells, feathers, beads and fur. They wore turquoise-colored arm bands and bare branches of fir. The women danced barefoot, Ortiz said, to signify the female's close relationship to the earth. The dancers moved in a giant circle, impelled by a beating drum and chanting chorus.

"As long as the drum beats, you don't get tired," said Ortiz. She dances in the summer with her father's people at San Juan Pueblo.

The Indian Room

In an informal panel, the American Indian alumni spoke of what Princeton meant to them. For Nez, "Princeton is where I learned how to learn." For Bitsue, Princeton "allowed me get the education necessary to help my people."

Several spoke of Princeton as their introduction to cultural diversity. "It's very narrow on the reservation," commented Shangreaux, who grew up on the Pine Ridge reservation in South Dakota. "Princeton was my first taste of what it's really like out there."

Jim remembered "walking into 1940 Hall and meeting a Puerto Rican, a Philippino, two American Blacks and then my white roommate."

A common undergraduate experience for the American Indians was being stereotyped by other students ignorant of native cultures. Several were asked if they lived in tepees. One student greeted Gomez with, "You're the Native American, right? Can you say something in Indian?" But such ignorance could lead to self-affirmation, said Pecos: "I realized who I was, where I came from, and that I would return to my people."

For all these American Indian alumni, Bush was an important part of their Princeton experience. They expressed their gratitude for his advice to the University administration on their behalf and for his support during periods of loneliness and cultural disorientation. "Whenever I had doubts," said Nez, "Mr. Bush always encouraged me."

"We would gather to study in the Western Americana room in Firestone," Shangreaux recalled. "We used to call it the Indian Room." Though she left Princeton for a time, on Bush's advice and with his help she returned to complete her degree.

"Alfred befriended all," she said. 
Detailed descriptions of job are available in the employment opportunities listing sections of University careers page and in the Office of Human Resources. For job information call (609) 258-6130. To apply for a current position, contact Human Resources, Clo Hall, Princeton University, Princeton, NJ 08544 (include two resumes, one for administrative staff, one for technical and secretarial staff). Internal candidates must include transfer/termination form. Employment office hours are Monday-Friday, 9:00 a.m. to 4:00 p.m.

New Listing.

Employment

Administrative and related staff

Assistant editor. Responsible for Class Notes and Memorials sections, which includes editing, copy, and treating weekly submissions from 80 alumni class secretaries, inside the University. Requires BA/BS; prefer a papertape background and computer experience. BA or related major desired. Requires at least five years experience with microcomputer products such as word processing, spreadsheets, and databases. Must be able to work well independently and appreciate good analytical and communication skills. Must have vision and hearing that with reasonable accommodation would enable work to be performed. Based in Flint. Salary: $17,750.

Director of Information Systems. Coordinates the planning, design, and implementation of administrative information systems, and is responsible for the University's infrastructure and applications. Requires a strong understanding of information technology, project management, and business processes. Requires at least 10 years of experience in a similar position. Salary: $35,000.

Assistant Director of Systems. Requires strong management, communications, and interpersonal skills. Responsible for the information systems group and the related work of approximately 20 employees. Requires at least 10 years of experience and a BS degree in computer science or equivalent. Salary: $27,500.

Computer System Administrator. Requires a BS degree in Computer Science or related field and at least four years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Systems Project Manager. Requires a BS degree in Computer Science or related field and at least five years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Systems/Network Analyst. Requires a BS degree in Computer Science or related field and at least two years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Database Administrator. Requires at least a BS degree in Computer Science or related field and at least five years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Assistant Director of Computing Services. Requires a BS degree in Computer Science or related field and at least five years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Assistant Director of Administration. Requires at least a BS degree in Business Administration or related field and at least eight years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Technology Manager. Requires a BS degree in Computer Science or related field and at least five years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Assistant Director of Information Technology. Requires a BS degree in Computer Science or related field and at least five years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Technology Coordinator. Requires a BS degree in Computer Science or related field and at least five years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Technology Analyst. Requires a BS degree in Computer Science or related field and at least three years experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Technology Specialist. Requires a BS degree in Computer Science or related field and at least one year experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Technology Support. Requires a BS degree in Computer Science or related field and at least one year experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Assistant Information Technology Specialist. Requires a BS degree in Computer Science or related field and at least one year experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Technology Assistant. Requires a BS degree in Computer Science or related field and at least one year experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Technology Intern. Requires a BS degree in Computer Science or related field and at least one year experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Technology Apprentice. Requires a BS degree in Computer Science or related field and at least one year experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

Information Technology Associate. Requires a BS degree in Computer Science or related field and at least one year experience in systems management. Responsibilities include managing the university's mainframe and minicomputer systems; planning, implementing, and maintaining systems and networks. Requires at least two years of experience in related work. Salary: $17,750.

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