

# Almanac

Tuesday, February 21, 1995

Published by the University of Pennsylvania

Volume 41 Number 22

## INSIDE

- Deans' Review Committees, p. 2
- Debating the Judiciary System, p. 2
- Added Thanks for Penn's Way, p. 2
- Call for Nominations, Honorary Degrees, p. 2
- Welcoming Middle States Visitors, p. 3
- Opportunities: Rose Fund, Study Abroad, p. 4
- Performance of Retirement Funds, pp. 4-5
- Community Partnership Awards, p. 6
- CrimeAlert/Stats, Update, pp. 6-7
- Cognitive Sciences at Five, p. 8

## SENATE

### From the Senate Office

*Under the Faculty Senate Rules, formal notification to members may be accomplished by publication in Almanac. The following is published under that rule.*

**TO:** Members of the Faculty Senate  
**FROM:** Barbara J. Lowery, Chair  
**SUBJECT:** Senate Nominations 1995-96

1. In accordance with the Faculty Senate Rules, official notice is given of the Senate Nominating Committee's slate of nominees for the incoming Senate Officers. The nominees, all of whom have indicated their willingness to serve, are:

*Chair-elect:* Peter J. Kuriloff (professor education)  
*Secretary-elect:* David B. Hackney (associate professor radiology/medicine)

*At-large Members of the Senate Executive Committee (to serve a 3-year term beginning May, 1995):*

Helen C. Davies (professor microbiology/medicine)  
Jean Henri Gallier (professor computer & information science)  
John G. Haddad (professor medicine)  
Paul R. Kleindorfer (professor operations & information management)

*Two Assistant Professor Members of the Senate Executive Committee (to serve a 2-year term beginning May, 1995):*

Sarah H. Kagan (nursing)  
Mary Susan Lindee (history & sociology of science)

*Senate Committee on Academic Freedom and Responsibility (to serve a 3-year term beginning May, 1995):*

Larry Gross (professor communication)  
John Keene (professor city planning)  
Susan Watkins (associate professor sociology)

*Senate Committee on Conduct*

*(to serve a 2-year term beginning May, 1995):*

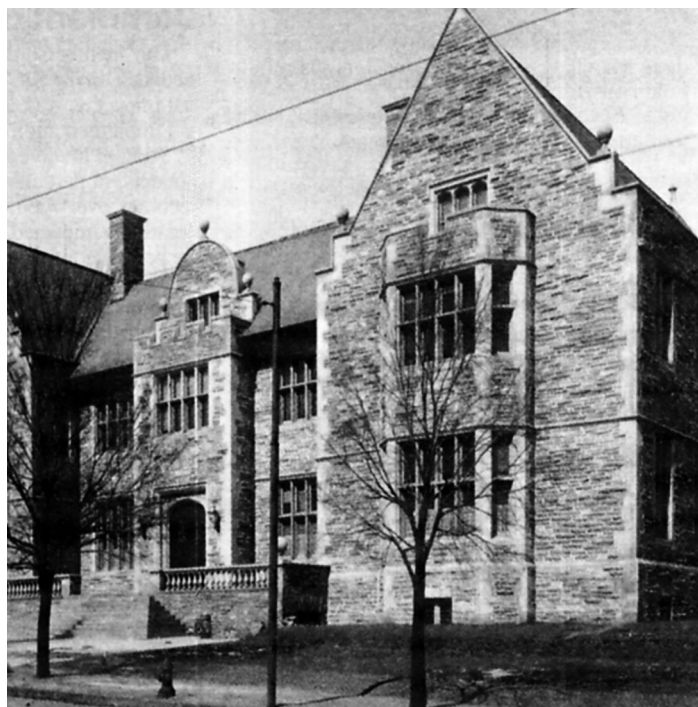
F. Gerard Adams (professor economics)  
Elijah Anderson (professor sociology)  
Arnold J. Rosoff (professor legal studies)

*Senate Committee on the Economic Status of the Faculty (to serve a 3-year term beginning May, 1995):*

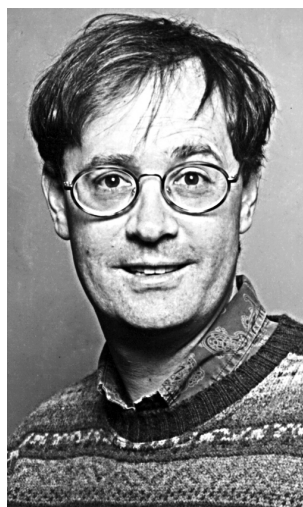
Roger M. Allen (professor Asian & Middle Eastern studies)  
Elizabeth E. Bailey (professor public policy & management)

2. Again in accord with the Senate Rules you are invited to submit "additional nominations, which shall be accomplished via petitions containing at least twenty-five valid names and the signed approval of the candidate. All such petitions must be received no later than fourteen days subsequent to the circulation of the nominees of the Nominating Committee. Nominations will automatically be closed fourteen days after circulation of the slate of the Nominating Committee." Pursuant to this provision, petitions must be received at the Faculty Senate Office, 15 College Hall/6303, by 5 p.m., Tuesday, March 7, 1995.

3. Under the same provision of the Senate Rules, if no additional nominations are received, the slate nominated by the Nominating Committee will be declared elected. Should additional nominations be received, an election will thereafter be held by mail ballot.



Houston Hall's 99th Birthday will be celebrated Thursday, February 23. The Office of Student Life Activities invites the University community to celebrate the birthday of America's oldest student union, shown above on its completion in 1896. The festivities will include discounts such as 99 cents off at the merchants in the Houston Hall Mall, and a chance to design a hand-crafted greeting card by Personacard from 11 a.m. to 3 p.m. The cake-cutting will take place at 1 p.m.; cake, ice cream and coffee will be served until 2 p.m. Pianist Kevin Chun, who is also Information Desk coordinator, will perform in the lobby from 1 to 2 p.m.



Dr. Robin Clark

## SAS's Watkins Chair: Dr. Clark, Linguistics

Dr. Robin L. Clark, who joined Penn in 1993 as assistant professor of linguistics, has been named to the M. Mark and Esther K. Watkins Assistant Professorship in the Humanities at the School of Arts and Sciences.

In appointing him to the chair, Dean Rosemary Stevens called Dr. Clark "an extremely promising young scholar" whose particular strengths are in learning theory, language acquisition, semantics and syntax, and whose teaching and research reflect an interdisciplinary approach. He has recently collaborated with a computer scientist in Australia on certain properties of language acquisition, for example. He has also team-taught with psychologist

(continued next page)

Dr. Lila Gleitman here a course he developed on language acquisition issues and their broader psychological context.

A 1980 graduate of the University of Texas at Austin, Dr. Clark took his M.A. in 1982 and his Ph.D. in 1984 from UCLA. He taught in the linguistics department of UCLA and in the philosophy department of Carnegie Mellon University, and was *charge de recherches* at the University of Geneva in Switzerland before coming to Penn.

### Memorial for Dr. David Solomons

A memorial service will be held on Saturday, March 4, at 2 p.m. for Dr. David Solomons, Ernst and Young Professor Emeritus of Accounting, who died February 12 at the age of 82 (*Almanac*, February 14, 1995).

The University community is invited to the service, which will be held at the Swarthmore Friends Meeting, 12 Whittier Place, on the Swarthmore College campus.

### Three Deans' Reviews

Provost Stanley Chodorow has announced the membership of review committees for three University deans who have completed their first five years in office.

*To review Dr. Raymond Fonseca, School of Dental Medicine:*

Joan Hendricks, Veterinary Medicine, *Chair*  
Kimsey Anderson, Dental postgraduate  
Lawrence Kessler, Alumnus/Overseer  
Norma Lang, Nursing  
Antonio McDaniel, SAS  
Peter Quinn, Dental Medicine  
Robert Ricciardi, Dental Medicine  
Sheldon Rovin, Dental Medicine  
Kendra Schaefer, Dental '95  
Denice Stewart, Dental Medicine  
Sally Zigmond, SAS  
Allison Rose, Office of the Secretary, *Staff*

*To review Dr. Kathleen Hall Jamieson of the Annenberg School for Communication:*

Michael Wachter, SAS, *Chair*  
Linda Aiken, Nursing  
Elizabeth Bailey, Wharton  
Cass Conrad, Annenberg '95  
George Custen, Alumnus  
Lynne Edwards, Annenberg '95  
Oscar Gandy, Annenberg  
Larry Gross, Annenberg  
Robert Hornik, Annenberg  
Carolyn Marvin, Annenberg  
Rosemary Stevens, Dean, SAS  
Jason Horger, Office of the Secretary, *Staff*

*To review Professor Colin Diver of the Law School:*

Anthony Santomero, Wharton, *Chair*  
Regina Austin, Law  
Magdalen Braden, Law '95  
Stephen Burbank, Law  
Adam Candeub, Law '95  
Gregory Farrington, Engineering  
Michael Fitts, Law  
Samuel Freeman, Philosophy and Law  
Eric Posner, Law  
Glen Tobias, Alumnus/Overseer  
Daniel Wagner, Education  
Constance Goodman, Office of the Secretary, *Staff*

### Continued Discussion on the Judicial Charter

*At the University Council meeting February 8, discussion continued on proposals for a new Student Judicial System Charter based on separate but parallel components for disciplinary cases and those involving academic integrity (see outline presented by the Provost, Almanac January 31). After extensive debate, particularly on the provision that advisors to the accused may not speak, the proposals were remanded to the Provost's working group, chaired by Ashley Magids and Wilton Levine, both C'96.*

*Separately, the following comment on the proposed judicial system was sent to Mr. Levine and to Almanac for publication. — Ed.*

### Comment on the Proposed Student Judicial Charter

Our membership has recently reviewed the proposed Student Judicial Charter. We feel that our feedback on the SJC is important because often graduate women's voices are not heard when policies that impact us are being decided. The issues about which we are concerned are central to the creation and implementation of a policy that will be effective and fair.

Student involvement in the judicial process is important, however the job expectations noted for students, in particular the judicial chair, seem quite demanding. If one student, especially the chair, becomes overwhelmed by the enormous responsibilities, both the process and the student could be negatively impacted. Endowing one lay person with such a workload and power base could undermine the perceived integrity of the process.

Many of our members have been or are presently employed in various agencies in leadership positions. We are deeply aware of the extensive training that would be necessary to effectively assist in provision for services similar to those proposed in this charter. We see no explicit requirements for training of committee members in the proposed charter.

As well, it is imperative to offer protection that guards against breaches in confidentiality and conflicts of interest that may be encountered by students.

Finally, the proposal seems very respondent driven. A complainant's voice appears grossly under-represented in this process. To not allow for some identified advocate for the complainant in the process can be publicly construed as ungracious and disingenuous, especially for complainants who are minority or disenfranchised individuals.

In conclusion, the proposal needs more work and is not satisfactory. We hope to be commenting on further policies in the future and hope to see our ideas integrated into a policy that will help Penn to be all that it can be.

— Rebecca Helem for the Graduate & Professional Women's Organization

### A Second Message on the Penn's Way Coordinators

*To the University Community:*

As co-chairs of the 1995 Penn's Way Campaign, we would like to take this special opportunity to thank those departments that had co-coordinators who were inadvertently left out of the February 14 issue of *Almanac*: Athletics, George O'Neill and Patrick Baker; Development and Alumni Relations, Heidi Thiermann and Nancy James; Nursing, Dawn Gaines and Constance Carino; University Life, Nancy McCue and Marie Gallagher. We'd especially like to recognize Heidi Thiermann and Nancy McCue for their outstanding efforts in working with their co-coordinators to reach 90% or greater participation for their respective areas.

Once again, thanks to all the coordinators and volunteers who took the time out from their busy schedules to make a difference.

—Helen Davies and Steve Murray,  
Co-chairs, Penn's Way 1995

### Honorary Degree Nominations: March 31 Deadline

The University Council Honorary Degrees Committee is now seeking nominees for University of Pennsylvania honorary degrees to be presented at the May 21, 1996 Commencement.

You are urged to involve your faculty colleagues in the procedure. A nomination may be supported by a group of faculty, and it should be accompanied by adequate biographical or other relevant information. Please do not ask the nominee for information.

The committee policy remains that all those nominated in previous years who have yet received an honorary degree are reconsidered each year. If you need information about any previous nominee, or if you have any questions, please telephone or e-mail the committee secretary, Duncan W. Van Dusen (Ext. 8-7005 or e-mail [vandusen@pobox](mailto:vandusen@pobox)).

Please note the committee schedule:

March 31 – Date by which nominations are requested.

April – By the end of April an attempt is made to develop a consensus about a list of names to be presented to the trustees.

Nominations are accepted with gratitude at any time during the year, but nominations received after March 31, 1995 may not be able to be considered for the May 21, 1996 Commencement.

— Dr. Robin M. Hochstrasser, Chair,  
University Council Honorary Degrees Committee



# Welcoming the 'Middle States' Team April 9 through 12

The Commission on Higher Education of the Middle States Association of Colleges and Schools (Middle States) will send a team of nine educators to the campus April 9 through 12 to complete the decennial accreditation review of the University that began with an internally-initiated review held in 1993.

The Middle States\* review constitutes the only process for accrediting Penn as a whole, Provost Stanley Chodorow said, since schools and programs at Penn are accredited by associations concerned with specific disciplinary areas.

Accreditation per se is not an issue for Penn, but the Middle States review is seen as "an opportunity for us to take stock of ourselves and to allow distinguished educators from peer institutions to reflect on our aspirations and our plans to achieve those aspirations," the Provost added. "This gives us a chance to focus our self-study on a particular area of importance to the institution—in this case, the reshaping of the undergraduate experience.

"With that in mind we will use the Middle States review process as an opportunity for Penn to evaluate its progress toward reaching the goals President Rodin outlined in her inaugural address," he added.

Those goals, spelled out more fully in an essay by Dr. Rodin and Dr. Chodorow (*Almanac* October 25, 1994), call for the design of a model within three years, to be ready for the Class of 2001's admission in fall 1997, based on seven principles—that the "21st Century Education at Penn" be:

- Institutionally Distinctive
- Faculty Centered
- Intellectually Engaged
- Research Oriented
- Residentially Integrated
- Interdisciplinary
- Broad and International

As required by Middle States, Penn has prepared a self-study document describing undergraduate education across the University. The self-study highlights recent efforts to improve the undergraduate experience—including the proposals on enhancing the College House system that are now being considered by the Residential Faculty Council. The self-study also outlines the work of the Provost's Council on Undergraduate Education, headed by Drs. Kim Morrisson and Robert F. Lucid.

The Office of Planning as well as the Provost have worked with Middle States in advance to engage a visiting team that will provide insights and constructive suggestions pertaining to the process and objectives of the review. An advisory group composed of eight faculty and two students from the undergraduate schools is helping prepare for the accreditation visit.

Faculty members on the advisory committee are Drs. Ralph Amado, physics; Linda Brown, nursing; Thomas Dunfee, legal studies; John Keenan, systems; Kathleen McCauley, nursing; Ralph Rosen, classics; Jerry Rosenbloom, insurance & risk management; and Kyle Vanderlick, chemical engineering. Two SCUE members, Sharna Goldseker and Adam Hellegers, are on the committee. Staff liaison to the Middle States team are Susan Shaman, assistant vice president for planning and analysis, and Teisa Brown, administrative assistant in the Planning Office.

"The faculty of every school, and particularly the faculty of the four undergraduate schools, have a material stake in the outcome of the effort to enhance and strengthen undergraduate education at Penn," Dr. Chodorow said. "Moreover, faculty have a stake in ensuring that the results of the Middle States process aid this larger effort."

During their visit, the accreditation team will engage many faculty, students, and staff in conversation, about issues outlined in the self-study, and particularly about undergraduate education at Penn.

An open house will be held on April 10, to which all members of the University will be invited to greet and talk with the visitors.

At the end of the visit, the external team will deliver an oral report to the president, provost, and the advisory group. Later, Middle States will furnish a written report, and its conclusions will be shared with the campus community.

## The April Visitors

Chairing the Middle States review is Dr. William C. Richardson, a health policy specialist who is president of the Johns Hopkins University. Dr. Thomas G. Burish, a clinical psychologist and provost of Vanderbilt, is the assistant chair.

On the review body are:

Dr. Edward A. Alpers, dean of honors and undergraduate programs at the University of California at Los Angeles;

Dr. Elnora D. Daniel, vice president for health at Hampton University in Hampton, Virginia;

Dr. John L. Ford, Robert W. and Elizabeth C. Staley Dean of Students and professor of human service studies at Cornell University;

Dr. Anita Gottlieb, vice president for finance and administration at Washington College in Chestertown, Maryland;

Dr. John D. Guilfoil, associate dean for academic affairs at New York University's Stern School of Business—Undergraduate College;

Dr. Andrea LaPaugh, associate professor of computer science at Princeton University.

Serving as evaluation team associate is Dr. Kenneth E. Hartman, director of admissions and guidance services at The College Board in Philadelphia.

Unique to the United States, accreditation of higher education is accomplished through voluntary self-regulation rather than government oversight. By ensuring the quality and integrity of higher education, voluntary accreditation certifies that institutions are worthy of public confidence, Ms. Shaman said.

"We are most fortunate to have two thoughtful and distinguished scholars, Dr. William Richardson, President of the Johns Hopkins University, and Dr. Thomas Burrish, Provost of Vanderbilt University, serving as chair and associate chair of the visiting team," the Provost said. "The distinction and breadth of its membership promises a lively and productive experience for the University."

**Preliminary Study:** The current self-study builds primarily on visits and conversations by a team of 14 educators who were invited by Provost Michael Aiken to visit the campus in the spring and fall of 1993. Penn's goals, articulated by the Planning Office for the current study on the basis of those visitors' comments, are "to identify areas for improvement in the four full-time undergraduate schools and in cross-school initiatives; to explore ways to derive maximum advantage from the symbiosis among the schools, including Penn's graduate and professional schools; to find more and better means of promoting the integration of academics and student life; and to find ways of promoting civility and respect among students, faculty and staff."

Recommendations on the last of these stem from the report of the Commission on Strengthening the Community, charged by Interim President Claire Fagin and Interim Provost Marvin Lazerson, and the self-study includes review of those recommendations in the Commission report that deal with undergraduate life (*Almanac* May 3, 1994).

A major recommendation of the 1993 external visiting committee was that the University recognize more fully the College's position of centrality among the undergraduate schools, as implied by its enrollment of more than 60 percent of all undergraduates and its role in providing course to virtually every undergraduate. The report lists as remaining challenges:

- To define and enhance the role of the College;
- To understand the unique strengths that arise from having internationally recognized programs in the undergraduate professional schools;
- To develop means of better realizing the concept of "One University," allowing students to take full advantage of the unique strengths of Penn's liberal arts programs and its various professional and graduate schools;
- To continue our focused examination of teaching and learning;
- To provide all undergraduates with opportunities to do research; and
- To enhance the intellectual atmosphere on campus through more formal and informal student and faculty interaction.

— K.C.G.

\* The Middle States region consists of the states of New York, New Jersey, Pennsylvania, Delaware, and Maryland. It also includes Washington, D.C., Puerto Rico, and the U.S. Virgin Islands.

## Penn Abroad at Seville: Graduate Assistant Position

There will be a position open for a Penn graduate student who speaks Spanish and is interested in spending the 1995-96 academic year in Spain working with the study-abroad program in Seville, Spain.

The position will run from September 1, 1995 to June 30, 1996. Responsibilities include: providing clerical and administrative support to the Resident Director and Assistant Director at the Centro Michigan-Cornell-Penn in Seville; assisting with student services; and participating in a three-week orientation in Madrid. Applicants must be fluent in Spanish, resourceful and flexible.

This position is ideal for a Ph.D. candidate who would be taking advantage of the resources available in Seville to do preliminary research for his or her dissertation. Position includes round trip travel, accommodations during Madrid orientation, some benefits and a \$10,000 stipend. To apply, please submit a cover letter and two recommendations (employer and faculty) by *March 31, 1995*. Mail to: Office of International Programs, University of Pennsylvania, 133 Bennett Hall, Philadelphia, PA 19104-6275. Attention: Penn in Seville Program. Or send e-mail to: [amygrat@pobox.upenn.edu](mailto:amygrat@pobox.upenn.edu). Telephone: 898-1652.

—Office of International Programs

## Rose Undergraduate Research Award Fund

As a major research institution, the University of Pennsylvania believes that a research experience can make a significant contribution to an undergraduate student's education. The Undergraduate Research Funds have been established to provide support for and recognition of outstanding undergraduate research efforts. The Rose Foundation has generously provided a gift, known as the Rose Undergraduate Research Award Fund, whose income recognizes outstanding achievement in research by undergraduates and by the faculty who advise them. Both funds are administered by the Office of the Vice Provost for University Life, with awards made on a competitive basis by the Council of Undergraduate Deans.

### Recognition of Outstanding Research—The Rose Foundation Award

Outstanding research achievements by undergraduates may be recognized by an award from the Rose Undergraduate Awards Fund. All research projects are eligible and need not have been funded by the Nassau Fund in order to qualify for recognition. Awards will be made depending upon income. In cases where there are multiple student research investigators and/or advisors, the awards will be divided among the participants. The criteria used in judging the projects will be the quality, the originality, and the importance of the research.

Research projects submitted for recognition must have a faculty advisor. Projects may be in any discipline or may represent an interdisciplinary effort.

### Procedure for application

To be considered for a Rose Award, a research project *must* be nominated by a member of the faculty. The deadline for nominations is *Friday, April 14th*. Students wishing to enter a project into this competition should ask a faculty member to nominate the project.

Nominations will consist of the faculty letter of nomination accompanied by an application form prepared by the student. Students may pick up the application form in their school or departmental offices or in the Office of the Vice Provost for University Life (200 Houston Hall). Students should fill out and submit the form to the faculty member who will be nominating the project. If the nomination is initiated by the faculty member, he or she should ensure that the student has filled out an application to accompany the letter of nomination.

### Faculty letter of nomination

The faculty letter of nomination should address the quality, the originality and the importance of the student's research. It should not exceed three (3) pages. Nominations will be reviewed by a committee of faculty who will make recommendations to the Council of Undergraduate Deans.

### Student application

The letter of nomination should be accompanied by the student's description of the project on the application form provided. The application should contain the following information:

- I. Cover Page containing the following information:
  - a. Title of proposal
  - b. Name of student, social security number, local phone number, local address, year and school
  - c. Name and department of faculty sponsor
  - d. 100-word abstract of proposal
- II. Proposal (not to exceed three (3) pages excluding figures or tables of data)
  - a. Description of Project
  - b. Methodology
  - c. Findings
  - d. Conclusions and Implications

Four (4) copies of this material should be submitted.

Two copies of the student's completed research paper and other materials should be attached, together with any supporting documentation such as appendices, photographs, cassettes, computer diskettes, other letters of support, etc.

Awards will be announced by the Council of Undergraduate Deans before Commencement and publicized in the appropriate campus media.

## Relative Investment Performance on Tax-Deferred Annuities

The Benefits Office regularly receives inquiries on the relative performance of investment funds offered under the University's tax-deferred annuity program. At right is a table which shows the performance of the various funds for the period ending December 31, 1994. The first column shows an abbreviation for the investment philosophy of the fund. (Abbreviations are described below). The second column shows the overall asset size of the fund in millions of dollars. Columns three through seven show the performance of the funds over various time horizons. Columns eight and nine show the best and worst year for the last five years.

The Benefits Office will periodically publish this information in *Almanac* to assist faculty and staff in monitoring the performance of their tax-deferred annuity investments. Any faculty or staff member who would like additional information on these benefit programs may call the Benefits Office at 898-7281.

—Dennis F. Mahoney, Manager, Benefits

### PHILOSOPHY KEY

#### Domestic:

D	Diversified Common Stock Fund
DI	Diversified Common Stock Fund With Somewhat Higher Income
SC	Speciality Fund With Small Company Common Stock Orientation
B	Balanced Fund
FIS	Fixed Income Fund (Short-Term Maturity)
FII	Fixed Income Fund (Intermediate-Term Maturity)
FIL	Fixed Income Fund (Long-Term Maturity)
FISG	Fixed Income Fund (Short-Term Maturity—Government Obligations)
FIIG	Fixed Income Fund (Intermediate-Term Maturity—Government Obligations)
FILG	Fixed Income Fund (Long-Term Maturity—Government Obligations)
FIM	Fixed Income Fund (Mortgage-Related Securities)
FIJ	Fixed Income Fund (Low-Rated Bonds)
MM	Money Market Fund
AA 30:40:30	Asset Allocation 30% Stocks: 40% Bonds: 30% Cash Benchmark Fund
AA 60:35:5	Asset Allocation 60% Stocks: 35% Bonds: 5% Cash Benchmark Fund

#### International:

ICS International Common Stock Fund

#### Global:

GCS Global Common Stock Fund

**Source:** Lipper Analytical Services and fund families.

\* Total Return: Dividend or interest plus capital appreciation or depreciation.

(1) CREF Equity Index Account was introduced on April 29, 1994.

(2) CREF Growth Account was introduced on April 29, 1994.

# 403(b) Performance Update Periods Ending December 31, 1994, Total Returns\*

	Philosophy	Size \$mm	Latest Quarter	1-Year Averg. Annual	3-Year Averg. Annual	5-Year Averg. Annual	10-Yr Averg. Annual	Best & Worst Year in last Five Years	
								Best	Worst
<b>Calvert Funds:</b>									
<b>Social Responsibility Fund</b>									
Social Investment Bond Portfolio	FII	58	-0.3	-5.3	4.1	7.2	NA	15.8	-5.3
Social Investment Equity Portfolio	D	87	-5.0	-12.1	-0.9	2.4	NA	21.9	-12.1
Social Investment Managed Growth	B	490	-1.7	-4.7	2.7	5.4	10.4	17.8	-4.7
Social Investment Money Market	MM	145	1.2	3.6	3.1	4.5	5.8	7.7	2.5
<b>CREF Funds</b>									
CREF Bond Market	FII	619	0.3	-4.0	4.6	NA	NA	NA	NA
CREF Equity Index Account (1)	D	72	-0.7	NA	NA	NA	NA	NA	NA
CREF Global Equities	GCS	2,745	-2.7	-0.5	NA	NA	NA	NA	NA
CREF Growth Account (2)	D	309	-0.8	NA	NA	NA	NA	NA	NA
CREF Money Market	MM	2,919	1.1	4.1	3.6	5.1	NA	8.3	3.1
CREF Social Choice	D	782	-0.4	-1.3	6.3	NA	NA	NA	NA
CREF Stock Account	D	54,761	-1.6	-0.1	6.5	8.2	14.3	30.1	-5.6
<b>Vanguard Funds:</b>									
Asset Allocation Fund	AA60:35:5	1,125	1.0	-2.3	6.0	8.6	NA	25.6	-2.3
Balanced Index Fund	B	403	-0.4	-1.6	NA	NA	NA	NA	NA
Bond Index Total Bond Mkt Portfolio	FII	1,730	0.6	-2.7	4.6	7.4	NA	15.2	-2.7
Convertible Securities Fund	DI	170	-3.0	-5.7	8.4	9.5	NA	34.3	-8.2
Equity Income Fund	DI	859	-1.1	-1.6	7.2	6.3	NA	25.4	-11.9
Explorer Fund	SC	1,121	-1.1	0.5	9.5	12.8	10.1	55.9	-10.8
<b>Fixed Income Securities:</b>									
GNMA Portfolio	FIM	5,777	0.8	-0.9	3.9	7.6	9.5	16.8	-0.9
High-Yield Corporate Portfolio	FIJ	2,120	0.6	-1.7	9.9	10.0	10.6	29.0	-5.8
Intermediate-Term U.S. Treasury	FIIG	844	0.2	-4.3	4.7	NA	NA	NA	NA
Long Term Corporate Portfolio	FIL	2,552	1.2	-5.3	6.0	8.9	10.4	20.9	-5.3
Long-Term U.S. Treasury Portfolio	FILG	644	1.9	-7.0	5.3	7.7	NA	17.4	-7.0
Short-Term Corporate Portfolio	FIS	2,905	-0.1	-0.1	4.7	7.2	8.5	13.1	-0.1
Short-Term Federal Portfolio	FISG	1,504	-0.2	-0.9	4.0	6.7	NA	12.2	-0.9
Short-Term U.S. Treasury Portfolio	FISG	703	-0.1	-0.6	4.1	NA	NA	NA	NA
<b>Index Trust</b>									
500 Portfolio	DI	9,356	-0.1	1.2	6.1	8.5	14.0	30.2	-3.3
Extended Market Portfolio	D	967	-2.3	-1.8	8.2	9.1	NA	41.9	-14.0
Growth Portfolio	D	86	0.6	2.9	NA	NA	NA	NA	NA
Total Stock Market Portfolio	D	785	-1.0	-0.2	NA	NA	NA	NA	NA
Value Portfolio	D	296	-0.8	-0.7	NA	NA	NA	NA	NA
<b>International Equity Index Funds:</b>									
European Portfolio	ICS	715	0.6	1.9	8.3	NA	NA	NA	NA
Pacific Portfolio	ICS	697	-2.5	13.0	7.9	NA	NA	NA	NA
Intern'l Growth Portfolio	ICS	2,927	-2.6	0.8	11.2	4.8	17.2	44.8	-12.1
<b>Money Market Reserves:</b>									
Federal Portfolio	MM	2,191	1.3	4.0	3.6	4.9	6.2	8.1	3.0
Prime Portfolio	MM	15,321	1.3	4.1	3.6	5.0	6.3	8.3	3.0
U.S. Treasury Portfolio	MM	2,108	1.2	3.8	3.4	4.8	5.9	7.9	2.8
Morgan Growth Fund	D	1,074	-0.8	-1.7	4.9	8.0	12.5	29.3	-1.7
PRIMECAP Fund	D	1,553	2.2	11.4	12.7	13.2	15.	33.	-2.8
Quantitative Portfolios	D	596	-0.1	-0.6	6.6	9.0	NA	30.3	-2.5
Small Cap Stock Fund	SC	605	-1.8	-0.5	11.8	10.7	10	45.3	-18.1
STAR Fund	B	3,766	-0.5	-0.2	6.9	7.9	NA	24.2	-3.6
<b>Vanguard Funds:</b>									
<b>Trustees' Equity Fund:</b>									
International Portfolio	ICS	1,053	-2.5	5.2	7.8	3.9	16.8	30.5	-12.3
U.S. Portfolio	DI	112	-2.4	-3.9	6.2	6.8	11.1	26.6	-8.3
U.S. Growth Portfolio	DI	2,109	1.7	3.9	1.7	10.1	12.8	46.7	-1.4
Wellesley Income Fund	B	5,680	-0.4	-4.4	6.0	8.5	11.8	21.6	-4.4
Wellington Fund	B	8,809	-1.3	-0.5	6.8	7.9	12.4	23.6	-2.8
Windsor Fund	DI	10,672	-3.2	-0.2	11.6	8.6	13.3	28.6	-15.5
Windsor II	DI	7,958	-2.0	-1.2	7.9	7.8	NA	28.7	-10.0
<b>Sector Funds:</b>									
Energy	S	445	-6.2	-1.6	9.7	5.5	12.0	26.5	-1.6
Gold & Precious Metals	S	639	-12.6	-5.4	13.8	4.3	10.5	93.3	-19.9
Health Care	S	708	0.5	9.5	6.4	15.6	20.0	46.3	-1.6
Utilities Income	S	560	-0.8	-8.6	NA	NA	NA	NA	NA
<b>Indexes To Compare Performance Against</b>									
S&P500			0.0	1.3	6.3	8.7	14.3	30.5	-3.1
Lipper Capital Appreciation Funds Average			-1.8	0.0	6.3	8.8	12.0	37.6	-8.0
Lipper Growth Funds Average			-1.3	-2.2	5.3	8.4	12.0	35.7	-5.5
Lipper Growth & Income Funds Average			-1.6	-1.0	6.0	8.0	12.0	28.8	-4.5
Salomon Bros. High-Grade Index			1.2	-5.8	5.3	8.4	11.6	19.9	-5.8
Lehman Brothers Gov't/Corporate Bond Index			0.4	-3.5	4.9	7.7	9.8	16.1	-3.5
Morgan Stanley Capital International-EAFE Index			-1.0	7.8	7.9	1.5	17.6	32.6	-23.4
Morgan Stanley Capital International-EMF Index			-14.7	-8.7	19.5	18.1	NA	71.3	-13.7
91-Day Treasury Bills			1.4	4.5	3.7	5.0	5.9	8.0	3.1





### Hoops for Houses

In a first-of-its-kind fundraiser for Habitat for Humanity, the Penn women's basketball team will play Columbia this Friday, February 24, at 7 p.m. at the Palestra. Tickets to the game are \$2; donations will be collected and will go to Habitat for Humanity. Later this spring, team members will do hands-on volunteer work at a West Philadelphia site. Volunteers interested in getting involved should contact Sue Bly, assistant coach for women's basketball, at Ext. 8-5496.

### Community Partnerships' Summer Teaching Grants

The Center for Community Partnerships has awarded the following Summer Course Development Grants for 1995. Grants are awarded for proposals demonstrating academic excellence; integration of research, teaching and service; partnership with community groups, schools, service agencies, etc.; and a focus on Philadelphia, especially West Philadelphia. Proposed courses will involve participation or interaction with the community as well as contribute to improving the community.

Dr. Eric Cheyfitz and Farah Griffin, English; *Proposal for a Course in Community Studies Linking Penn Undergraduates and West Philadelphia High School Students.*

Dr. Peter Conn, English; *English 388: American Studies.*

Dr. Alan Filreis, English; *Teaching the Holocaust as Model for High School-University Partnerships.*

Dr. Frank F. Furstenberg, Jr., Sociology; *Sexuality, Health, and Adolescent Development.*

Dr. Robert E. Kohler, History and Sociology of Science; *Environmental History and the Urban Scene.*

Dr. Julia Paley, Anthropology and Urban Studies; *Methods in Urban Ethnography.*

Dr. Peggy Reeves Sanday, Anthropology; *Cultural Pluralism: Ethnography and Community Service.*

Dr. Anne Whiston Spirn, Landscape Architecture and Regional Planning; *Landscape and Community in the Mill Creek Watershed.*

Dr. Thomas Sugrue, History; *Institutions and Neighborhood Change: West Philadelphia and North Philadelphia, 1940-1990.*

—Dr. Francis E. Johnston, Anthropology, and Dr. Albert Stunkard, Psychiatry, Co-Chairs, Faculty Advisory Committee, Center for Community Partnerships

### Priorities for Neighborhood Revitalization: Goals for the Year 2000

The Association of Women Faculty and Administrators invites the University community to meet representatives of the Penn Faculty and Staff for Neighborhood Issues (PFSNI). The discussion will be held February 23 at 4 p.m. in Smith-Penniman Room, Houston Hall.

PFSNI is a group of faculty and staff drawn from the Penn people who reside in the communities immediately surrounding Penn. PFSNI believes that as Penn moves toward the year 2000, without stable viable neighborhoods in the areas immediately north and west, the University faces a cycle of decline in its environment which will be difficult to reverse. Their goal is to help and encourage the University to focus and apply its considerable resources to preserve and sustain these communities.

The following members of the PFSNI steering committee will discuss their views on how Penn can help improve the schools, safety and aesthetics of the environment and how other city universities are meeting similar challenges.

Lynn Lees, history, SAS, chair of PFSNI

Eric Cheyfitz, English, SAS

Anne Froehling, landscape architecture, Facilities Planning

Yvonne Paterson, microbiology, Medicine

### Crime Alert: A Pattern in Thefts of Personal Property

February 19, 1995

There have been numerous thefts of unattended or unsecured personal property from common areas—lounges, libraries, computer rooms, classrooms—inside University buildings during the afternoon and early evening hours. Most of these thefts of wallets or knapsacks have occurred at the following locations:

- Steinberg Hall-Dietrich Hall: Computer labs, lounges
- Vance Hall: Computer labs, lounges
- Annenberg School: Auditorium Control Room
- Furness Building: Library, first floor reading room
- Van Pelt Library: no specified floor
- Graduate School of Education: Classrooms
- Castor Building: Classrooms

**Safety Tips:** As always, we encourage you to continue to utilize safety precautions, to be aware of your surroundings and to promptly report any suspicious activity:

- While in class, at the library, in the computer lab or office, always keep your personal belongings in view.
- Avoid leaving purses or wallets on top of or underneath a desk.
- If you place your knapsack down, make sure that it is in front of you at all times. Do not place valuables in outer compartments where they can be easily removed by a pickpocket.
- Never display money in public. Carry only the necessary cash and credit cards.
- Report anyone who behaves suspiciously to the Penn Police Department. Remember the person's appearance and relay it to the dispatcher.
- Use the outdoor Blue-Light Telephones: Open the box and lift the receiver for direct connection to the Penn Police or dial 511 or 898-7297 from any campus telephone.

*We need you to be aware and to be involved in the prevention of crime by diminishing the opportunity for crime to occur. Safety is everyone's responsibility!*

—Division of Public Safety

### Safety Training: Bloodborne Pathogens and Chemical Hygiene

The following training programs are required by the Occupational Safety & Health Administration (OSHA) for all employees who work with hazardous substances, including: chemicals, human blood, blood products, fluids, and human tissue specimens. These programs are presented by the Office of Environmental Health & Safety (OEHS). Attendance is required at one or more sessions depending upon the employee's potential exposure.

**Chemical Hygiene Training:** Provides a comprehensive introduction to laboratory safety practices and procedures at Penn and familiarizes the laboratory employee with the Chemical Hygiene Plan. This course is designed for employees who have not previously attended Chemical Hygiene training at Penn. Required for all Penn employees who work in labs. *March 2, 1:30-2:30 p.m., John Morgan Building, Class of '62 Lecture Hall.*

**Occupational Exposure to Bloodborne Pathogens:** This course provides significant information for employees who have a potential exposure to human bloodborne pathogens. Topics include a discussion of the Exposure Control Plan, free Hepatitis B vaccination, recommended work practices, engineering controls and emergency response. This course is designed for employees who have not previously attended Bloodborne Pathogens training at Penn. Required for all Penn employees potentially exposed to human blood or blood products, human body fluids, and/or human tissue. *March 15, 1:30-2:30 p.m., Biomedical Research Building 1, Room 202.*

Attendees are requested to bring their Penn ID cards to facilitate course sign-in. Additional programs will be offered on a monthly basis during the spring. Check PennInfo for dates and times. If you have any questions, please call Bob Leonzio at 898-4453.



The singing-dancing Penn Glee Club brings the tuneful tale about the discovery of King Tut's treasure-filled tomb, *Sing Tut*, to the Zellerbach Theatre of the Annenberg Center for 8 p.m. performances, February 23, 24, and 25. Bruce Montgomery directs the 133rd annual production. Tickets are \$8 (or \$6 for Penn faculty, staff and students). Box office: 898-6791.

\*\*\*

Mask and Wig Club's 107th annual production, *Thugs and Kisses*, a send-up of "(dis)organized crime" in 1940s Hollywood, is now at the Mask & Wig Clubhouse Thursdays-Saturdays through April 1. Performances at the Annenberg School Theatre are March 17 and 18. Tickets and info: 923-4229.

# Update

FEBRUARY AT PENN

## CHANGE

**26** 1995 Ivy League Women's Gymnastics Classic; 1 p.m.; The Palestra; free with Penn student ID; ticket information/group rates: 898-6151.

## FILM

**25** *The General* (Buster Keaton, USA, 1927); silent film with live accompaniment on the Curtis Organ; 7 p.m. and 9:30 p.m.; Irvine Auditorium; \$3, \$2/PennCard holders (Penn Film Society).

## FITNESS/LEARNING

**22** *Francophone*; French conversation for francophones and francophiles; 5 p.m.; Houston Hall (French Institute).

**23** *Type and Teamwork*; Janet Mass, Training and Organization Development; 9 a.m.-5 p.m.; Training Center, Blockley Hall; \$50; registration: 573-8663 (Human Resources; T & OD).

**25** *Selling Skills for the Entrepreneur*; Nick Calazzo, Resource Specialists; \$205 (incl. lunch); 9 a.m.-4 p.m.; info: 898-4861 (Wharton SBDC).

## MEETING

**23** *Priorities For Neighborhood Revitalization: Goals for the Year 2000*; with representatives of the Penn Faculty and Staff for Neighborhood Issues (PFSNI); 4 p.m.; Smith-Penniman Room, Houston Hall (Association of Women Faculty and Administrators).

## SPECIAL EVENT

**23** *HIV/AIDS Awareness Month Keynote Speech*; Athlete Jim Howley discusses HIV and fitness; 7 p.m.; Room B-6, Stiteler Hall; (Student Health; Office of Health Education).

## TALKS

**22** *BABAR and the Study of CP Violation in Beauty Decay*; Vera Lüth, Stanford; 4 p.m.; Room A2, DRL (Trustees' Council of Penn Women; Physics). *Student luncheon and discussion with Dr. Lüth, February 23, noon, Room 2E17, DRL.*

*The Pasha's Seamstress: A Life Story of a Moroccan Jewish Woman*; Sharon Vance, Asian and Middle Eastern Studies; 5 p.m.; info: 898-6335 (Middle East Center).

**23** *Controversies in Functional Measurement States*; Margaret Stineman, rehabilitation medicine; 9 a.m.; Hirst Auditorium, Dulles (Clinical Epidemiology; Health Services Research).

*Muscle—the movie*; John M. Squire, Imperial college of Science and Technology, Blackett Lab, London; 4 p.m., Physiology Library, Richards Bldg. (Pennsylvania Muscle Institute).

**24** *Approach to the Inflamed Joint*; Peter Callegari, rheumatology; noon; Agnew-Grice Auditorium, Dulles (Medicine).

*Approaching the Akropolis*; Michael Djordjevitich, Princeton; noon; Room 113, Jaffe History of Art Building (Graduate Group in Art and Archaeology of the Mediterranean World).

**27** *Ranking Risks: A Step to Ranking Options?*; Baruch Fischhoff, Carnegie-Mellon University; noon-1:30 p.m.; Boardroom, 4th Floor, Colonial Penn Center (Center for Risk Management and Decision Processes Center; Leonard Davis Institute of Health Economics).

*Mechanical Design of Muscular Systems*; Lawrence C. Rome, biology; 2 p.m., Physiology Library, Richards Bldg. (Pennsylvania Muscle Institute).

*Product Development and Multidisciplinary Teams*; Miles P. Drake, Air Products and Chemicals; 3:30 p.m.; Room 337, Towne Building (Chemical Engineering).

**28** *Medical Management of Thyroid Carcinoma*; Kelly Davis, endocrinology; 8 a.m.; Medical Alumni Hall, Maloney (Medicine).

*Crystallographic Studies of Cellular Signal Transduction and DNA Replication*; John Kuriyan, Rockefeller University; George Raiziss Biochemical Rounds; noon; Austrian Auditorium, Clinical Research Building (Biochemistry and Biophysics).

*Tradition, Innovation, and the Social Construction of Knowledge in Medieval Islam*; Jonathan Berkey, Princeton; 4:30 p.m.; Room 421, Williams Hall (Middle East Center).

## The University of Pennsylvania Police Department Community Crime Report

This summary is prepared by the Division of Public Safety and includes all criminal incidents reported and made known to the University Police Department between the dates of **February 13 and 19, 1995**. The University Police actively patrol from Market Street to Baltimore Avenue, and from the Schuylkill River to 43rd Street in conjunction with the Philadelphia Police. In this effort to provide you with a thorough and accurate report on public safety concerns, we hope that your increased awareness will lessen the opportunity for crime. For any concerns or suggestions regarding this report, please call the Division of Public Safety at 898-4482.

**About the Crime Report:** Below are all Crimes Against Persons listed in the campus report for the period **February 13 to 19, 1995**. Also reported were Crimes Against Property including 28 thefts (including 1 burglary, 4 of auto, 6 from auto, 1 of bikes and parts) and 6 incidents of criminal mischief and vandalism. Full reports are in *Almanac* on PennInfo.—Ed.

### Crimes Against Persons

**34th to 38th/Market to Civic Center:** Threats & harassment—1  
02/17/95 12:38 PM Steinberg/Dietrich Letters/phone calls received

**38th to 41st/Market to Baltimore:** Robberies (& attempts)—1, Threats & harassment—1  
02/15/95 12:59 PM 3943 Chestnut Attempted robbery/arrest  
02/17/95 9:28 PM Harrison House Harassing letters received

**41st to 43rd/Market to Baltimore:** Robberies (& attempts)—1  
02/19/95 11:46 PM 4300 Spruce Robbery by 3 males w/simulated weapon

**30th to 34th/Market to University:** Threats & harassment—1  
02/15/95 9:10 PM Zeta Psi Harassing phone call received

**Outside 30th to 43rd/Market to Baltimore:** Robberies (& attempts)—1,  
Simple assaults—2, Threats & harassment—1  
02/13/95 11:36 AM 21st & Lombard Wallet taken at gunpoint/no injuries  
02/16/95 12:49 PM 7201 Pittsville Av. Harassing phone calls received  
02/17/95 10:22 AM City Hall PPD officer assaulted/arrest  
02/17/95 5:44 PM 4700 Chestnut Unknown male hit complainant on head

### Crimes Against Society

**34th to 38th/Market to Civic Center:** Disorderly conduct—3  
02/14/95 3:53 PM 3700 Blk. Locust Male causing disturbance/arrest  
02/15/95 5:43 PM 100 Blk. S. 38th Male acting disorderly on highway/arrest  
02/17/95 4:20 PM Houston Hall Male causing disturbance/arrest



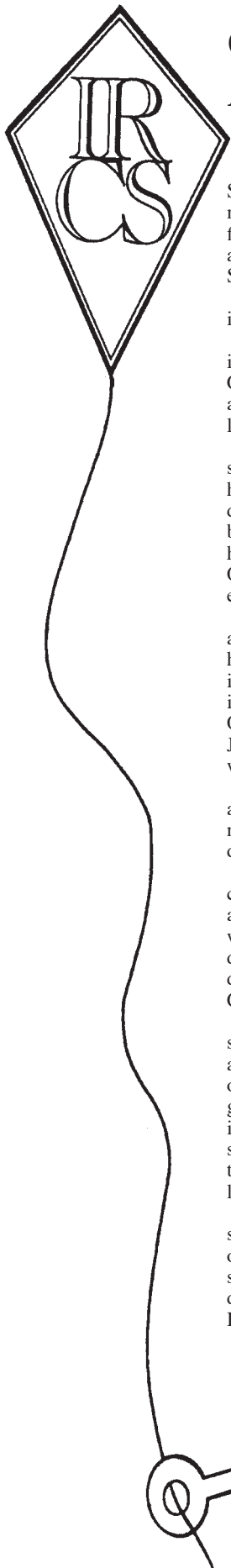
*Almanac*

3601 Locust Walk Philadelphia, PA 19104-6224  
(215) 898-5274 or 5275 FAX 898-9137  
E-Mail ALMANAC@POBOX.UPENN.EDU

The University of Pennsylvania's journal of record, opinion and news is published Tuesdays during the academic year, and as needed during summer and holiday breaks. Guidelines for readers and contributors are available on request.

EDITOR Karen C. Gaines  
ASSOCIATE EDITOR Marguerite F. Miller  
EDITORIAL ASSISTANT Mary Scholl  
STUDENT AIDES Libby Bachhuber, Suma CM, Julia Gusakova, Zack Miller, Stephen J. Sanford, Jenny Tran

ALMANAC ADVISORY BOARD: *For the Faculty Senate*, Martin Pring (Chair), Jacqueline M. Fawcett, Phoebe S. Leboy, William Kissick, Barbara J. Lowery, Ann E. Mayer, Paul F. Watson; *for the Administration*, Stephen Steinberg; *for the Staff Assemblies*, Berenice Saxon for PPSA (formerly A-1 Assembly), Diane Waters for the A-3 Assembly, David Azzolina for Librarians Assembly.



## Cognitive Science: A Look at a Multidisciplinary Institute's First Five Years

The Institute for Research in Cognitive Science (IRCS) fosters the development of a science of Mind, ("Cognitive Science") through the interaction of investigators from several disciplines: computer and information science, linguistics, mathematical logic, neuroscience/bioengineering, philosophy, and psychology. The foundational stance in this burgeoning field is that intelligence can be explained and modelled as computational devices of various kinds. Our cross-disciplinary approach allows scientists to explore several formal and substantive aspects of this general field: Language Acquisition, Structure, and Processing; Perception and Action; and Logic and Computation.

The theories and technologies developed by cognitive science are proving crucial to the design of the material and informational civilization of the future: machines that can capably perceive the world, learn, reason, communicate and act.

January 1995 marked the fifth anniversary of the Institute's inception. The past five years have yielded significant growth in our cross-disciplinary efforts. In 1991 IRCS became the site of a National Science Foundation Science and Technology Center. This grant has been renewed, and will result in funding of more than \$21 million over 10 years. One of 25 Science and Technology Centers across the country, IRCS is an example of Penn's commitment to multi-disciplinary initiatives, linking 48 SAS and SEAS faculty members.

A striking property of our research into language is the strong interaction between investigations geared toward understanding the human ability to learn and use language, and developing methods to allow computers to effectively process human language. An interdisciplinary effort among linguists, computer scientists, and psychologists has resulted in the development of new techniques for the automatic discovery of grammars from large corpora. These methods were inspired by collateral work on child language acquisition and linguistic techniques. In the area of child language acquisition, this work has led to a fundamental understanding of differing learning procedures for vocabulary and language structure ("grammar"). On the technological side, this work and related efforts on language structure have led to the development of wide coverage exportable grammars and parsers based on lexicalized grammars.

Research into perception and action occurs along a variety of lines—machine vision, robotic manipulation, human vision and motion representation, human-machine interaction, to name a few. Our efforts recognize that all biological organisms have multiple sensing capabilities that provide enormous amounts of information about the environment. This information, in turn, guides action and behavior. By studying the integration of perception and action, our researchers hope to gain an increased understanding of the human organism, along with new standards of performance in machine behavior and abilities. One of the notable developments we have seen in the past year or two is the increasing number of applications, such as Jack™, an animation software package, and other vision and robotics tools that have emerged from perception and action work.

The interdisciplinary nature of these efforts has led to a number of new scientific alliances, both within the perception and action group and across this boundary, bridging perception and action with language. Chief within language and space research is the question of how natural language encodes space—objects, motions, and locations—and how these encodings differ from those accessible to the perceptual and motor systems.

Our research thrust in logic and computation seeks to develop new logical resources for attacking computational, conceptual, and mathematical problems that arise in the analysis of cognitive processes. We recently developed a new approach to programming with collection types that greatly expands the expressive power of current database languages, while preserving their structural properties. This view has some counterparts in our work in language. In an interesting development, this work has led to some large scale applications in computational biology that are being used to integrate databases and data sources used in the Human Genome Project and Penn's new Research Training Program in Computational Biology; these applications had defeated currently available technology.

The recent growth of computational biology at Penn has fueled some exciting and unexpected links with cognitive science. We have successfully applied techniques in formal languages to the recognition and analysis of genetic material, and are studying the relationship between the grammars used in genetic analysis and those in linguistics. The recent discovery of efficient algorithms for approximating the number of strings of a given length in a regular language has led to the investigation of extending these algorithms to languages specified by more general grammars. Second, there is now an active area in algorithms concerned with the reconstruction of phylogenetic trees—from molecular characteristics or from other observable traits. New algorithms discovered by computer scientists have led to a collaboration with linguists, applying the same techniques to the evolution of languages using comparative grammatical and lexical data. In addition, our work on database languages has found application not only in biological databases, but in satellite image databases.

As part of our educational mission we have developed a cognitive science curriculum here at Penn, as well as furthering such developments elsewhere. On the undergraduate level, SAS and SEAS students may opt for a cognitive science minor, or a computer and cognitive science dual degree. Our graduate program allows students enrolled in affiliated departments to specialize in cognitive science, with the goal of producing truly interdisciplinary students who are experts in more than one discipline and understand their mutual relationship. Our postdoctoral and visitors programs bring talented researchers to IRCS to act as a bridge between disciplines and enhance their knowledge.

Our pre-college activities are carried out by PENNlincs, the Institute's outreach arm. A colloquium series designed to produce hands-on science units for kindergarten and first grade children is now in its sixth year of activity, while two new projects involve the development of informal family learning programs for cultural institutions such as the Philadelphia Zoo, the Franklin Institute, and the New Jersey State Aquarium.

As the co-directors of IRCS, we look forward to the continued growth of interdisciplinary activities in cognitive science, yielding enhanced research, technological development, and educational activities.

*Lila Gleitman*  
Co-Director, IRCS

*Aravind K. Joshi*  
Co-Director, IRCS

For more information about IRCS, point a WWW browser such as Mosaic or Netscape to <http://www.cis.upenn.edu/~ircs/homepage.html>, or look in PennInfo under "Interdisciplinary Programs."