MAKING CONNECTIONS
2000–2002
THE CUR DEFINITION OF UNDERGRADUATE RESEARCH

“Undergraduate research is an inquiry or investigation conducted by an undergraduate student that makes an original intellectual or creative contribution to the discipline.”

CUR programs emphasize the importance a mentor, usually a faculty member, in guiding an undergraduate to achieve the most from an undergraduate research experience.

1978
- First Directory on Undergraduate Research in Chemistry at Undergraduate Institutions (Private Liberal Arts Colleges).

1979
- First Meeting of the Council on Undergraduate Research.

1980
- First CUR Newsletter.
- CUR adopts first constitution and by-laws.

1981
- Council on Undergraduate Research is incorporated and receives tax exemption status.

1982
- CUR submits proposal for RUI to the National Science Board.

1983
- First Councilors admitted from public institutions.
- NSF-RUI Program introduced.

1984
- Physics/Astronomy and Biology Councils are added to CUR.

1985
- CUR’s First National Conference on Undergraduate Research (Colgate University).
- NIH’s AREA Program introduced.
- NSF-College Science Instrumentation Program (CSIP) introduced (precursor to NSF-ILI Program).
- American Chemical Society Award for Research at an Undergraduate Institution instituted with funding from Research Corporation.
The mission of the Council on Undergraduate Research is to support and promote high-quality undergraduate student-faculty collaborative research and scholarship.

The Council on Undergraduate Research (CUR) and its affiliated colleges, universities, and individuals share a focus on providing undergraduate research opportunities for faculty and students at predominantly undergraduate institutions. CUR believes that faculty members enhance their teaching and contribution to society by remaining active in research and by involving undergraduates in research. CUR’s leadership works with agencies and foundations to enhance research opportunities for faculty and students. CUR provides support for faculty development. Our publications and outreach activities are designed to share successful models and strategies for establishing and institutionalizing undergraduate research programs. We assist administrators and faculty members in improving and assessing the research environment at their institutions. CUR also provides information on the importance of undergraduate research to state legislatures, private foundations, government agencies, and the U.S. Congress. CUR welcomes faculty and administrators from all academic institutions. Our primary advocacy is in support of faculty and students at predominantly undergraduate institutions. CUR achieves its vision through efforts of its membership as organized in a divisional structure that includes biology, chemistry, geosciences, mathematics and computer science, physics and astronomy, psychology, social sciences, and an at-large division that serves administrators and other disciplines.

1986
- Geology Council is added to CUR.

1987
- First National Conference on Undergraduate Research (NCUR) for students at Asheville, NC, cosponsored by CUR.
- NSF-Research Experiences for Undergraduates (REU) Program introduced.
- NSF-Instrumentation for Laboratory Improvement (ILI) Program introduced.

1988
- CUR Consulting Service introduced.

1989
- Mathematical and Computer Sciences Council is added to CUR.
- CUR begins individual membership.
- First colleges and universities respond to the invitations to be CUR Sponsors to facilitate the establishment of CUR’s National Office.
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Opposite: Student John Skinner of the University of Pittsburgh at Bradford collects liverworts hosting rotifers for his study of this plant-animal interaction.
1990
■ First summer fellowships awarded through CUR.
■ At-Large Council is added to CUR.
■ CUR Individual Membership reaches 1,000.

1991
■ CUR National Office is opened at University of North Carolina at Asheville with major support from Pew Charitable Trusts and Research Corporation.
■ CURLS (CUR’s Listserv) is introduced.
■ John Stevens is appointed first National Executive Officer.

1992
■ National Information Center on Undergraduate Research (NICUR) is formed as a branch of CUR for data acquisition and production of directories with major sponsorship of the Merck Foundation and the Camille and Henry Dreyfus Foundation.
■ First Summer Undergraduate Fellowships awarded with private foundation sponsorship.

1993
■ First April Dialogue (hosted by the National Institutes of Health).
■ Institutional membership for colleges and universities is introduced.
■ Psychology Division is added to CUR.
■ CUR Newsletter becomes the CUR Quarterly.
■ Speaker’s Bureau introduced.
■ CUR Individual Membership reaches 2,000.

1994
■ Institutional Liaisons established.
■ First SURE summer fellowships awarded in biology with NSF-REU funds awarded to CUR.

1995
■ CUR website is initiated.
■ CUR individual membership reaches 3,000.
■ CUR institutional memberships reaches 100.

1996
■ First CUR Institute on How to Institutionalize Research.
■ CUR institutional membership reaches 200.
■ CUR publishes How to Get Started in Research.

1997
■ First CUR Undergraduate Research Capitol Hill Poster Session.
■ Engineering Division is added to CUR.
■ CUR individual membership exceeds 3000.
■ Receipt of NSF Course and Curriculum Development Grant in the Biological Sciences “Research Link 2000.”
PRESIDENTS’ REPORT

CUR MEMBERS AND FRIENDS;

Now in existence for 24 years, the Council on Undergraduate Research has served individual faculty, departments and institutions by enhancing the environment for collaborative faculty-student research on our campuses. This biennial report reflects our commitment to that focus. In the report, you can read about our outreach activities, our meetings and publications, faculty development efforts, government relations and our grants programs. Most of all, you will see how a collection of people who are passionate about their ideas have been able to affect the landscape of higher education.

Since our last report two years ago, CUR has continued to mature and thrive. Our CUR Institutes remain extremely popular while our summer undergraduate research grants program has been strengthened by a new source of funding. Our advocacy continues to bear fruit and our recent national conference was a great success. The “how to” booklets serve many. CUR’s reach is longer and more substantial with our efforts to embrace Ph.D. granting institutions and new disciplines. We have renewed our commitment to greater inclusion and continue to look for ways to bring fresh ideas and people into the organization. And with the support of many individuals and institutions, our financial picture is sound.

During 2002-2003, we will continue these efforts and in addition, engage in a comprehensive strategic planning process that is already underway. We also will more explicitly assess the impact of undergraduate research on individuals and on institutions. I am sure that many new ideas will spring forward and we will continue to regenerate ourselves.

I hope that you will find this report useful and that you find ways to engage us so that we can engage you.

Mitch Malachowski, President
Mike Nelson, Immediate Past-President

1997 (continued)
■ Receipt of NSF grant from Materials Sciences Division to promote linkages between PUI faculty members and PI’s of NSF grants in Materials Sciences.
■ K. Elaine Hoagland appointed CUR’s second National Executive Officer.
■ CUR Archives established at UNCA.
■ CUR National Office moves to Washington, DC.
■ Comprehensive external review of CUR funded by a grant from Research Corporation.

1998
■ NSF Undergraduate Education Division (DUE) Division modifies its ILI, CCD, and UFEP programs into CCLI.
■ First Vital Faculty Institute.
■ CUR celebrates its twentieth anniversary and honors its founder, Brian Andreen, with the establishment of the Andreen Undergraduate Research Fellowships Endowment.

1999
■ Council votes to explore expansion of CUR to all fields covered by NSF.

2000
■ CUR Proposes an NSF AIRE program for Comprehensive Universities.
■ First CUR Fellow Awards bestowed on Mary Allen and Julio Ramirez.
■ First CUR Institute on Proposal Writing.
■ New “How to” booklet published, entitled How to Develop and Administer Institutional Undergraduate Research Programs.
■ CUR begins production of online, searchable CUR Directories of Research at Primarily Undergraduate Institutions.
The Council on Undergraduate Research continues to be characterized by growth and change, while maintaining its grassroots volunteer nature. CUR has highest number of institutional members in its history — 354 institutions joined in support of undergraduate research in 2001-2002.

Changes include a new social sciences division, and a commitment to meet the needs of research universities to institutionalize undergraduate research while retaining a focus on primarily undergraduate institutions. We have also opened many of our programs to all academic disciplines.

CUR’s theme in the period of this report is “making connections.” A major CUR priority in the past two years has been outreach to sister organizations, to policymakers, and to our own members. We have had formal collaborations or joint activities with a number of organizations, including Sigma Xi, the Virginia Space Grant Consortium, the National Collegiate Inventors and Innovators Alliance, the Undergraduate Research Community for the Human Sciences, the American Association for Higher Education (AAHE), and the National Council for Science and the Environment (NCSE).

A major new program for 2000-2002 has been the Undergraduate Researchers’ Graduate School Registry, which not only facilitates matches between graduate schools and undergraduates looking to further their education in scientific fields, but also provides funding for our Undergraduate Research Summer Fellowship Program through graduate school subscription fees. Another new program is the CUR Peer Reviewers’ Registry, that makes connections between faculty and federal science agencies that require peer reviewers.

In 2002 CUR began serving colleges and universities through on-campus faculty retreats and institutes. We look forward to expanding this important service in 2003.

A strategic plan for CUR is under development. Stay tuned for new programs and emphases as CUR moves forward in the 21st Century.

Dr. K. Elaine Hoagland
National Executive Officer

2001
- Social Sciences Division formed.
- CUR Affinity Groups initiated.
- New Mission Statement approved, widening CUR’s purview to include all academic institutions and all academic fields.
- Online Peer Reviewers’ Registry begun.
- “How To” booklet published: How to Get a Tenure-Track Position at a Predominantly Undergraduate Institution.

2002
- Undergraduate Researchers’ Registry fully operational, yielding income for summer fellowships program.
- New Values Statement approved, re-emphasizing core focus on PUIs.
- First CUR-lead faculty retreat on a PUI campus.
- New features developed for CUR Quarterly: “Undergraduate Research Highlights” and “Institutional Highlights”.
- First CUR symposium on Research Ethics, with web resource center.
- Draft strategic plan developed and presented to the Council
- “How To” Booklet published: How to Mentor Undergraduates.
GROWTH, GOVERNANCE, ADMINISTRATION, GROWTH & PLANNING
GROWTH & PLANNING

Over the past two years, CUR has been involved in a comprehensive strategic planning process that will help to shape our organization for the next five to ten years. A strategic planning committee prepared draft documents that the councilors and executive board used at the 2001 and 2002 council and board meetings to discuss the mission of the organization, our place in higher education, our strengths and challenges and the full range of activities that we offer. A vigorous discussion of the issues occurred at the council meeting at Connecticut College in June 2002. Much more conversation will take place, but we are confident that by the next councilor’s meeting in June 2003, we will have a plan that drives all of our programs.

“Undergraduate Research for All” was the theme of the 2002 CUR National Conference. For the first time, we had full participation by our new Social Sciences Division. We also had several workshops for the arts and humanities. CUR’s Research University Affinity Group met for the first time, and a workshop was devoted to research university problems. CUR has begun to offer faculty retreats and workshops on undergraduate research for research university campuses. CUR has also worked with Canadian colleges and universities to provide information on our programs and ways that we can serve them.

GOVERNANCE

CUR continues to be governed by its Executive Board with input from its Council. The Council is responsible for the programmatic elements of the organization, through its disciplinary divisions and committees. In the past two years, we have folded the Engineering Division back into the other physical science divisions. There is a separate Engineering Affinity Group that meets during CUR’s National Conferences. Other active affinity groups are in the fields of biochemistry, environmental research, arts and humanities, undergraduate research programs, and college administration. In 2001 we initiated a Social Sciences Division, which is home to a broad group of faculty and administrators ranging from sociologists and geographers to anthropologists and economists.

ADMINISTRATION AND FINANCE

The Executive Board has developed new Mission and Values Statements, along with policies on CUR white papers and conflict of interest. The Finance Committee meets regularly by conference call to oversee the budget and to review financial reports. We are developing a two-year budget cycle to take into consideration the biennial nature of our major national conference. CUR continues to operate in the black. Annual audits are regularly conducted and have shown no deficiencies. CUR is current in all federal, state, and local reporting.

The Investment Committee has developed a conservative investment strategy for its reserve funds in tune with today’s economic environment. In 2002, CUR continued to build endowment in the Andreen Undergraduate Research Fund through a matching grant challenge from an anonymous donor. CUR solicited funds from a number of corporate donors for the CUR Summer Fellowships and support of our national meetings. Dues from individuals and institutions remain the backbone of support for membership programs.
**CUR Executive Board**

**JULY 1, 2000 – JUNE 30, 2001**

2002 President  
Toufic Hakim  
Kean University

**Immediate Past-President**  
David Elmes  
Washington & Lee University

**President Elect**  
Michael Nelson  
University of Wisconsin – La Crosse

**Treasurer**  
John Idoux  
Tarleton State University

**Secretary**  
Michael Tannenbaum  
Marist College

**At-Large Division Chair**  
Rosalind Reichard  
Meredith College

**Biology Division Chair**  
Jon Monroe  
James Madison University

**Chemistry Division Chair**  
Mitchell Malachowski  
University of San Diego

**Engineering Division Chair**  
Carr Everbach  
Swarthmore College

**Geosciences Division Chair**  
Jill Singer  
Buffalo State College

**Mathematical & Computer Sciences Division Chair**  
Patrick McDonald  
New College of Florida

**Physics/Astronomy Division Chair**  
Shila Garg  
The College of Wooster

**Psychology Division Chair**  
Kathleen Morgan  
Wheaton College

**Ex Officio**  
National Executive Officer  
Dr. K. Elaine Hoagland  
CUR National Office

**Chair of Finance Committee**  
David Reingold  
Juniata College

**JULY 1, 2001 – JUNE 30, 2002**

**President**  
Michael Nelson  
University of Wisconsin–La Crosse

**Immediate Past President**  
Toufic Hakim  
Kean University

**President Elect**  
Mitchell Malachowski  
University of San Diego

**Treasurer**  
John Idoux  
Tarleton State University

**Secretary**  
Michael Tannenbaum  
Marist College

**At-Large Division Chair**  
Rosalind Reichard  
Meredith College

**Biology Division Chair**  
Jeffrey Osborn  
Truman State University

**Chemistry Division Chair**  
Kerry Karukstis  
Harvey Mudd College

**Geosciences Division Chair**  
Jill Singer  
Buffalo State College

**Mathematical & Computer Sciences Division Chair**  
Patrick McDonald  
New College of Florida

**Physics/Astronomy Division Chair**  
Jeffrey Collett  
Lawrence University

**Psychology Division Chair**  
MaryAnn Baenninger  
Middle States Commission on Higher Education

**Social Sciences Division Chair**  
Elizabeth Paul  
The College of New Jersey

**Ex Officio**  
National Executive Officer  
Dr. K. Elaine Hoagland  
CUR National Office

**Chair of Finance Committee**  
Mark Shapiro  
California State University - Fullerton

**CUR National Office Staff**

**National Executive Officer**  
Dr. K. Elaine Hoagland

**Office Manager**  
JoAnne Connolly-Reiche

**Meetings Manager**  
Lisa Driver

**Membership and Communications Coordinator**  
Emily Leary

**Information Systems Manager and Webmaster**  
DaPeng Lu

**ASSOCIATES**

**Melinda Appel**  
Appelgrafix

**Michael Saylor**  
Blythe Financial Services
MEMBERSHIP

University of San Diego Honors Program student Nichole DiStefano obtaining sediment samples from Punta del Gato, a pristine site approximately seven kilometers from a cannery. Over the past five years the faculty at the University of San Diego have been encouraged to actively participate in a Teacher-Scholar model in which teaching and research go hand-in-hand.
In 1999, CUR's individual membership stood at 2652; by 2002 it stood at 3190. Institutional membership was 312 in 1999 and 354 in 2002. A full list of institutional members can be found in the appendix to this report. CUR had eight active divisions in 2001-2002: At Large (primarily administrators and unaffiliated individuals), Biology, Chemistry, Geosciences, Mathematics and Computer Science, Physics and Astronomy, Psychology, and Social Sciences. The eight CUR divisions elect members of the General Council and in turn, CUR Council Members from each division send representatives to the CUR committees. The committee chairs are appointees of the CUR president.

All CUR members are encouraged to spread the membership message to friends, new colleagues, and to their campus administration, if their institution is not already a CUR member. CUR Liaisons play a special role in communicating CUR's message on college campuses. In 2002 there were nearly 350 individuals who volunteered to be CUR Liaisons on their campuses. All received fall and spring mailings containing information to distribute about CUR programs, with special emphasis on CUR's 2002 National Conference. In addition, CUR members have been kept informed of CUR activities through our listserv. The CUR Office Reports and Washington Reports have been sent by email to CUR members.
2000 – 2002
CUR COUNCILORS

The Council is the source of ideas, inspiration, and volunteers for CUR’s programs. It determines the overall mission and scope of the organization, while the Executive Board performs fiduciary duties including oversight of the National Office. Council members are elected through their divisions to three-year terms during which they attend annual Council meetings and serve on CUR’s committees. The following individuals have served as councilor during the period 2000 - 2002. The list is arranged first by division and secondly, by the terminal year of the councilor’s service.

AT-LARGE
2001
Naomi Amos
Jenny Bradley
James Bundschuh
Val Dunham
Christopher Lind
William Mech
Rosalind Reichard
Marilyn Williams

2002
Jeffrey Bader
Patricia Buennemeyer
William Campbell
Lee Carrillo
Cheryl Knox
Michael Nelson
Susan Painter
Michael Tannenbaum

2003
Neal Abraham
Linda Freed
Gary Gaffield
Harvey McMurray
Jeanne Narum
William Rauckhorst
Janet Stocks
Lauren Wilson

2004
Naomi Amos
Nora Bell
David Brakke
James Bundschuh
Mauri Ditzler
John Falconer
Frances Farnsworth
Rosalind Reichard

2005
Ellis Bell
Linda Blockus
James Gentile
Sandra Gregerman
Patricia Pukkila
Jill Salvo
Michael Tannenbaum
Theodore Williams

BIOLOGY
2001
Barbara Byrne
Conrad Firling
Sibdas Ghosh
Stephen Loomis
Jill Manske
John Olsen
Frank Pascoe
Joanne Willey

2002
Mark Brodl
Robert Hamilton
Maxine Highsmith
Doug Kline
Kelly McConnaughey
Jon Monroe
Marcia O’Connell
Brad Stith
Marcus Webster

2003
Vicki Cameron
Mary Crowe
Kate Goddard-Doms
Karen Koster
Andrew Methven
Giselle Muller-Parker
Jeffrey Osborn
Dan Wubah

2004
Lawrence Aaronson
Thomas Bultman
Barbara Byrne
Sibdas Ghosh
Jeffrey Hughes
Stephen Loomis  
Jill Manske  
**2005**  
Sylvio Codella  
Paula Dehn  
James Luken  
Kelly McConnaughay  
Marcia O’Connell  
Brad Stith  
Marcus Webster  
Jessica Young  

**CHEMISTRY**  
**2001**  
John Gilje  
Judith Halstead  
Mitch Malachowski  
Charlotte Otto  
David Reingold  
James Swartz  
Nanette Wachter  
Charles Wade  
**2002**  
JoAnn De Luca  
Julio De Paula  
Ron Estler  
Bridget Gourley  
Diane Husic  
Kerry Karukstis  
Nancy Mills  
Tom Wenzel  
**2003**  
Sam Abrash  
Howard Black  
Tim Elgren  
Kim Lance  
Bob Landolt  
Rosemary Marusak  
Sylvia Ronco  
Merle Schuh  
**2004**  
Michael Castellani  
Stanton Ching  
Judith Halstead  
Mitchell Malachowski  
Christopher Rohlman  
Roger Rowlett  
James Swartz  
Jodi Weseemann  
2005  
Julio De Paula  
Melvin Druelinger  
Bridget Gourley  
Diane Husic  

Kerry Karukstis  
Barbara Lawrence  
Carlyse Salter  
Thomas Wenzel  

**MATHEMATICAL & COMPUTER SCIENCES**  
**2001**  
Martin Bonsangue  
Richard Gillman  
Robert Hoar  
Anthony Macula  
Jean McKemie  
Hira Narang  
Dipendra Sengupta  
Mike Westmoreland  
**2002**  
Helen Grundman  
George Mackiw  
Kazhem Mahdavi  
Patrick McDonald  
Tom Sibley  
Ed Smith  
Zsuzsanna Szaniszlo  
Scott Vandenberg  
**2003**  
Thomas Hunter  
Michele Intermont  
Joan Krone  
Clif Kussmaul  
David Mullins  
Ramin Naimi  
Margaret Robinson  
Richard Scott  
**2004**  
A. Richard Alo  
Bela Bajnok  
Robert Hoar  
Mario Martelli  
Sivaram Narayan  
Cheri Shakiban  
Linda Thiel  
Yongzhi Yang  
**2005**  
Muhammad Ali  
George Mackiw  
Patrik McDonald  
David Shaffer  
Thomas Sibley  
Zszusanna Szaniszlo  
Christino Tamon  

**GEOSCIENCES**  
**2001**  
Dave Bailey  
Christopher Cholokwu  
John Creasy  
Karen Grove  
Jill Singer  
Stephan Stahl  
Joel Thompson  
Kevin Urbanczyk  
**2002**  
Brannon Andersen  
Lori Bettison-Varga  
Darby Dyar  
Lydia Fox  
Kimberly Hannula  
David Matty  
Linda Reinen  
Patricia Videtic  
**2003**  
Ed Hansen  
Michele Hluchy  
Kirsten Menking  
James Murowchick  
Virginia Peterson  
Jeffrey Ryan  
Robert Shuster  
Donald Woodrow  
**2004**  
David Bailey  
John Creasy  
James Cullen  
Steven Dunn  
Karen Fryer  
Gayle Gleason  
Karen Grove  
Jill Singer  
**2005**  
C. Brannon Andersen  
Lori Bettison-Varga  
Lydia Fox  
Kimberly Hannula  
David Matty  
Bill Miller, Jr.  
Linda Reinen  
Patricia Videtic  

**PHYSICS & ASTRONOMY**  
**2001**  
Rex Adelberger  
Mario Affatigato  
Amy Bug  
James Garner  
Don Jacobs
Dennis Marks
Norman Markworth
Kurt Vandervoort

**2002**
Joseph Amato
Kurt Bachman
Jeffrey Collett
Snezana Delafave
Shila Garg
Mary Kertzman
Mark Shapiro
Tom Wilson

**2003**
Vijendra Agarwal
Beth Cunningham
Tom Donnelly
Maria Falbo
Nathanael Fortune
Ted Hodapp
John Mateja
Duncan McBride

**2004**
Rexford Adelberger
Dennis Eggleston
Karen Kolehmainen
Terry Oswalt
Stephen Padalino
S.Narasinga Rao
Kevin Riggs
Gubbi Sudhakaran

**2005**
Mark Biermann
Jeffrey Collett
Toufic Hakim
Sally Koutsoliotas
Wai-Ning Mei
Jay Newman
Kenneth Rumstay
Thomas Wilson

**PSYCHOLOGY**

**2001**
Marie Balaban
Lora Becker
Michael Kerchner
Kathleen Morgan
Ralph Parsons
Linda Reuckert
Jonathan Vaughan
Debra Zellner

**2002**
MaryAnn Baenninger
Peter Balsam
Teresa Barber
Cynthia Crawford
Kathleen Galotti
Walter Isaac
Jenny Lowry
Keith Ogawa

**2003**
Steven Dworkin
David Elmes
Stephen Flora
Helga Noice
Vincent Prohaska
George Spilich
Janice Steirn
Lawrence Wichlinski

**2004**
Joanne Altman
Maurice Levesque
G. Andrew Mickley
Nancy Oley
Ralph Parsons
Linda Rueckert
Debra Zellner
Mark Zrull

**2005**
MaryAnn Baenninger
Teresa Barber
Cynthia Crawford
Walter Isaac
Jenny Lowry
Kathleen Morgan
Keith Ogawa
Jonathan Vaughan

**SOCIAL SCIENCES**

**2003**
Jean Belkhir
Reed Benedict
Irene Fiala
Thomas Ford
James LaPlant
Laurie Scheuble
Thomas Van Valey

**2004**
Joseph Joyce
Ida Mukenge
Amy Patterson
Elizabeth Paul
Julio Rivera
Jacqueline Simpson
Julia Wallace

**2005**
Mary Borg
Shannon Crum
John Ishiyama
William Miller
Michael Steinberg
I attended the Proposal Writing Institute at Juniata College. I was (and still am) working on a proposal to the NSF-CCLI that I intend to submit this fall. However, the many valuable pointers that I received enabled me to write an undergraduate research proposal that I submitted last November ... I am pleased to say that the Research Corporation provided me with a Cottrell College Science Award. The Proposal Writing Institute was enormously helpful for me. Without it, I doubt that my proposal would have been funded. Thank you and keep up the good work!

— CUR member Mark Ellison
Meetings

CUR National Conference

About 600 persons attended CUR 2002, our 9th National Conference, at Connecticut College. The general theme for the meeting was “Undergraduate Research for All.” CUR awarded its CUR Fellows Awards for excellence in fostering undergraduate research to Joseph Gallian of the University of Minnesota Duluth and Thomas Wenzel of Bates College. Our keynote speaker, James Lightborne of the Directorate for Education and Human Resources at NSF, discussed the integration of research and education and held a freewheeling forum following the plenary to capture ideas from the participants. CUR conducted a survey of member attitudes on research ethics as part of a special symposium on Research Responsibility, and publicized the results at the meeting. Kay Fields of the US Department of Health and Human Services, Office of Research Integrity (ORI), and Jim Kroll, Office of the Inspector General, NSF, were plenary speakers. A complete proceedings of the Research Responsibility Symposium, with bibliography and web resources, will remain on the CUR website indefinitely (www.cur.org/conferences/responsibility/ResRespons.html). ORI and NIH provided funds for the symposium.

Another special symposium was held on Assessing the Institutional Environment for Undergraduate Learning, with emphasis on undergraduate research. Jim Gentile of Hope College, John Hayek of Indiana University-Bloomington, and Patrick McDonald of the New College of Florida participated in a panel discussion of national projects including the Academic Excellence project, the National Survey of Student Engagement, and CUR’s own Undergraduate Research Directory Database. One result of the symposium was the drafting of a communiqué that is now being circulated for signature by national associations and other groups interested in institutional assessment.

CUR Institutes

The CUR Institutes bring together faculty and administrators for three days of intensive conversation related to the topic of the workshop. These Institutes continue to be one of the most popular programs that we offer. Begun in 1996, we now offer institutes focused on three different themes. The “Vital Faculty Institute” in support of mid-career faculty members was held in 2002 at California State University Long Beach. Faculty who come discuss issues associated with reviving their professional careers and leave with goals on how to do so. Our traditional Fall CUR Institute, “How to Institutionalize Undergraduate Research”, was held at Coastal Carolina University in October 2000 and 2001. This workshop brings together teams of faculty and administrators from institutions so that when they return to campus, they collectively work on the goals for incorporating undergraduate research across their campuses that they generated at the Institutes. The CUR Institute on Proposal Writing was held in July 2000 at the University of Michigan-Dearborn and in July 2001 at Juniata College. Faculty members attending these Institutes leave their workshop with a well-crafted grant proposal partly as a result of the input of the facilitators. We plan to continue to offer these Institutes with additional institutes on other topics in the planning stages.

Mellon Foundation Award to Support HBCU Faculty

Faculty and administrators from private historically black colleges and universities (HBCUs) were able to attend CUR meetings through funding from the Mellon Foundation. HBCU faculty and administrators from Clark Atlanta, Dillard, LeMoyne-Owen, Shaw, Spelman, Morris, Stillman, Tougaloo, Xavier (La.), Hampton, Livingstone, and Alcorn University attended four CUR Institutes, a Research Link 2000 meeting, and the 9th National Conference. In addition, faculty members and students from two HBCUs were supported in attending CUR’s Posters on the Hill, one group in 2001 and another in 2002. Several of the HBCU faculty were invited to consider a run for CUR Councilor. One of those who responded affirmatively wrote to one of the CUR staff members, “Please allow me to express my gratitude for the kindness and consideration shown to me (and my colleagues) during the CUR conference. … Your efforts really made the trip special for us and especially for me as we were truly in the “minority.” Thank you for your hard work.” CUR indeed is working hard to welcome our HBCU colleagues into the leadership of CUR.
INFORMATION AND COMMUNICATIONS

The CUR Quarterly was produced under the leadership of Editors-in-Chief Dr. Anant Godbole (2000-01) and Thomas Wenzel (2001-02). Each issue included a focus topic, including NSF’s CCLI Program, Undergraduate Research Celebration Days, Undergraduate Research in the Humanities and Social Sciences, Students with Special Needs, and Mentoring Research Responsibility. The tables of contents and key articles are archived on the CUR website. New columns were instituted, featuring undergraduate research highlights and undergraduate institutions.

HOW TO SERIES

CUR’s How To series is purchased by faculty, graduate students, and administrators to assist in faculty development and to effect institutional change. In 2001, CUR published How to Get a Tenure-Track Position at a Predominantly Undergraduate Institution. In 2002, CUR published How to Mentor Undergraduate Researchers. Also in 2002, CUR agreed to produce a new full-length book, provisionally titled Reinvigorating the Undergraduate Experience through Research and Inquiry-Based Learning.

CUR WEBSITE

In 2000-2002, CUR added an Undergraduate Research Directory/Database to its web offerings. It also added an Undergraduate Researchers’ Graduate School Registry. Undergraduate Research Highlights, abstracts of papers published with undergraduate authors, is an archived list from the CUR Quarterly. CUR continued to archive databases/surveys that have been published on CUR’s listserv and elsewhere. A listing of Undergraduate Research Celebration Days has also been published on the website. There is a searchable Individual Members Directory and a list of institutional members with links to their own websites. The website hosts a Members Only section with special information section on funding opportunities and sabbaticals.

THE CUR LISTSERV, CUR-L

The Listserv provides an open venue of discussion for all who are interested in undergraduate research and the goals of CUR, members and nonmembers alike. It is most often used for sharing of information on the environment at colleges and universities that allows research by faculty and students to flourish, such as administrative support and best practices. Job announcements are posted on a volunteer basis.

CUR DIRECTORY

Data collection began in late 2001 for CUR’s online Directory of Undergraduate Research. Data input is being made directly from college and departmental representatives to a CUR database accessible on our website. Two hundred eighty two schools with 448 departments are currently in the database. The survey and directories will be available in a searchable electronic format by the end of 2002.

PEER REVIEWERS REGISTRY

The Peer Reviewers’ Registry was opened to all the major federal agencies (NSF, NIH, DOE, NASA, USDA) and foundations that fund undergraduate research. There are more than 270 individuals in our database.

OUTREACH AND COLLEGIAL RELATIONS

The theme for the Presidency of Michael Nelson in 2001-02 was “Making Connections.” CUR redoubled its efforts to forge alliances with like-minded organizations and to spread our message across the scientific and educational communities. Specific activities include:

- CUR maintained its participation in a coalition of scientific societies to support a funding increase for NSF.
- CUR ran a workshop on undergraduate research at the National Collegiate Inventors and Innovators Alliance meeting in 2002.
- CUR collaborated with SRI International in its project to assess undergraduate research programs at NSF and other agencies, for the National Science Foundation.

CUR continued its ongoing collaborations with sister organizations including Sigma Xi, AAHE, the National Association of Biology Teachers, the American
Chemical Society, the American Society for Microbiology, the American Institute of Biological Sciences, the American Geological Institute, AAAS, the National Research Council, the National Conferences on Undergraduate Research, Project Kaleidoscope, the American Psychological Association, the American Sociological Association, and the Undergraduate Research Community for the Human Sciences. We have exchanged ads and places on our national programs with many of these societies.

CUR members presented the CUR message at many educational society meetings and conferences, including the annual meetings of the American Chemical Society, the Geological Society of America, AAAS, AAHE, NCUR, FASEB, and the American Mathematical Society.

GOVERNMENT RELATIONS

2000-2002 was a very active time for CUR interactions with Congress and federal agencies. The CUR Washington Report, an on-line newsletter for members distributed weekly, detailed these activities and announced new funding opportunities especially suited to CUR members at primarily undergraduate institutions or those at any college or university wishing to focus on undergraduate research.

CUR has promoted civic action by CUR members to support science funding, including support for the NSF budget and support of funding for science education within the Environmental Protection Agency. CUR worked with NIH to clarify funding for and operations of the NIH AREA grants program. We promoted the NASA webcasts to the Research Community, and in 2002 attended “Partners in Progress: the President's Management Agenda and the Higher Education Community.” A question from CUR was highlighted during the webcast. We are working with the Department of Defense, Office of Army Research, to help them develop a program for undergraduate research similar to the old NASA JOVE program.

CUR has played a major role in the development of HR 3130, the Tech Talent Bill. As part of that effort, CUR presented testimony on “Federal Support of Undergraduate Education in Science and Technology: Using the Undergraduate Research Model” to the House Science Committee, Subcommittee on Research, on March 7, 2002. CUR supported several provisions to authorize NSF to fund undergraduate research and faculty development at all types of colleges and universities.

CUR continued to urge NSF to establish a program to recognize comprehensive universities that excel in undergraduate research, similar to the AIRE and RAIRE programs of past years for baccalaureate colleges and research universities, respectively. The CUR White Paper on integrating research and education at comprehensive universities was distributed to the House Science Committee and discussions ensued with House Committee staffers. Report language was included in the House version of the 2002 Tech Talent Bill that supported CUR’s initiative on behalf of comprehensive universities.

CUR participated in the SET Work Group’s Congressional Visits Day in both 2001 and 2002. The CUR staff escorted several CUR members on visits to their Congressional and Senate offices and helped develop their talking points.

I just wanted to say that about a month ago you sent me a note about an NSF grant opportunity that I was not even aware existed. I have never heard of it before or since your message. I have applied for it ($300,000). So, if I get it, I can say that my membership in CUR was an absolutely critical factor. Thanks.

— CUR member J. Gallian

Thanks for sharing the Undergraduate Researchers’ Graduate School Registry information with me...WHAT A GREAT IDEA! Keep up the good work....I love what you guys are doing.

— CUR member O. Cargol
I loved feeling like I was a part of the democratic system in place on Capitol Hill and meeting the people that are able to shape the policies of our nation. My congressmen wanted to hear what I had to say and it was a great experience to meet so many people interested in science in general from CUR. Now I know first hand how much Capitol Hill needs people with an understanding of science and current research.

— Katharine Burgdorff, Middlebury College Student
CUR SUMMER UNDERGRADUATE RESEARCH FELLOWSHIPS

The Undergraduate Research Fellowship Program of the Council on Undergraduate Research provides support for a seminal experience in the life of an undergraduate science, mathematics, or engineering student — 10 weeks of research with a faculty mentor, and the chance to travel to give a paper or poster at a scientific meeting. The fellowship gives students an opportunity to learn exactly what a scientific career is about, while contributing original thought and making significant discoveries.

CUR members, friends, graduate schools (through subscription to our newly initiated Undergraduate Researchers’ Graduate School Registry) and our corporate and government sponsors make our awards possible. CUR contributes all management costs of the undergraduate research fellowship program. In 2001 and 2002, a total of 37 awards were made — 15 in chemistry, ten in biology, three each in physics/astronomy, mathematics/computer science, and psychology, two in geology, and one in engineering. We awarded four Andreen Fellowships with income from our endowment named in honor of our founder, Brian Andreen, and funds from an anonymous donor, supplemented by CUR's own funds. The awards were made in the fields of mathematics, chemistry, physics and psychology.

A challenge gift to the Andreen Fund spurred individual donations to CUR's endowment.

Students and faculty mentors continued to praise the undergraduate research fellowship program. We received many more high-quality applications than we could support. We are becoming more aware of the transformational nature of the undergraduate research experience, especially for students who would otherwise have to work at a job unrelated to their science education. We believe that many of the talented students who receive CUR undergraduate research fellowships would not pursue successful careers in science without this opportunity at this critical stage in their young careers. This may be especially true for students who come from backgrounds without peer or adult role models in scientific endeavors, and who have to support themselves during their college years.

UNDERGRADUATE RESEARCH POSTERS ON THE HILL

In 2001 and 2002, CUR sponsored undergraduate research poster sessions on Capitol Hill, with introductory remarks by Congressman Rush Holt (D, NJ). In 2001, 68 students from 25 states delivered research posters. In 2002, CUR's volunteer reviewers chose 71 students from 28 states to present their work. Students have the opportunity to meet with their legislators in their offices as well as at the poster session to thank them for federal funding and to ask them to continue support for the programs that provide funds for undergraduate research. In 2002 NASA provided support for three of its Undergraduate Student Research Program students to present their research.

The summer research program offered .... an opportunity paralleled by no other. .... I feel that I have achieved a new level of professionalism. I have started to expect more from myself and demand perfection in the things I have written and presented.

— Aaron Coffin, Hobart & William Smith Colleges (2002 summer research program student)

I had the typical pitfalls of beginners, so I focused on how to solve problems. I began to really see how the research lab works and began to realize how much this is what I want to do.

— Daniel Muller, University of Illinois at Springfield (2001 summer research program student)

Opposite: North Carolina Senator Charles Carter talks with UNC - Chapel Hill Professor Jaquelyn Hall (third form left) and some of her undergraduate and graduate students (from left to right - Elizabeth Hamilton, Kathy Newfont and Matish Wiggs) about their collaborative work with the Southern Oral History Program directed by Professor Hall.
SPECIAL PROGRAMS FOR FACULTY DEVELOPMENT
RESEARCH LINK 2000

CUR offered two training Institutes where faculty members came to learn how to use research-based laboratory systems in biology. The systems were developed in an earlier phase of the project, which was supported by a grant from the National Science Foundation. NSF funds supported participants’ onsite costs and development of a major web resource for faculty members who adopt the Research Link labs and their students. The website remains now that the grant has expired. CUR members who were active in this project are planning to run future workshops, including one in late 2002, and CUR is committed to updating the information available on the website about Research Link systems.

CUR CONSULTING

In addition to 35 departmental reviews in the past two years, CUR provided a consulting team to Alfred University to help with a faculty retreat on institutionalizing undergraduate research. A CUR team assisted Rowan University to review its programs in physical science and engineering in 2002. CUR departmental reviews continue to receive high praise.

I wanted to thank you for putting together the wonderful CUR team for us. . . . They were totally delightful individuals and conducted the review with sensitivity and humor. Their suggestions were very helpful. They provided the faculty with numerous kudos as well as suggestions for improvement of the curriculum, faculty needs, and programmatic changes that would improve the program and reduce faculty workload. It was a very positive experience for us.

— Dominican University

Opposite: Biology majors Jessica Pariera and Linnsey Miller viewing a computer display in Physiological Dynamics.

Below: CUR members take advantage of benefits of all kinds of programs and stuff thanks to the tireless efforts of Elaine Hoagland and the National Office staff!!!!!!!!!!!
RECOGNITION:
THE CUR FELLOWS AWARD

An undergraduate student comments on Tom Wenzel’s award:
Dr. Wenzel always encouraged me to excel and accomplish more than I ever would have dreamed I could. In the three years since I graduated from Bates, I have kept in touch with Dr. Wenzel. He is still a wonderful source of career advice and encouragement. He has been the inspiration for me to consider the prospect of teaching in the future ....

A research colleague commends Joseph Gallian:
Joe’s persistence and success stories led to a change in attitudes at NSF; the spawning of a huge number of undergraduate research programs and journals; and most importantly, to large numbers of mathematicians embracing — and rejoicing in — the fact that research done by undergraduates CAN alter the landscape of prevailing knowledge.

The Council on Undergraduate Research presented two CUR Fellows Awards at its 2002 National Conference. The recipients were Thomas J. Wenzel, Charles A. Dana Professor of Chemistry at Bates College, and Joseph A. Gallian, Distinguished Professor of Teaching and Professor of Mathematics at The University of Minnesota Duluth. With these Fellows Awards, CUR celebrates individuals who exemplify the ideals of CUR.

The CUR Fellows awards, to be presented biennially, recognize CUR members who have developed nationally respected research programs. Awardees have established outstanding records of obtaining funding for their work and for their students, and publishing research findings with undergraduate coauthors. They reach out to students of all backgrounds, incorporate research activities into the courses they teach, and lead efforts to institutionalize research on their campuses and across the nation. In sum, they are leaders and role models for countless faculty and students at primarily undergraduate institutions.

The nominees for our award have many common personality traits. They are compassionate, nurturing mentors gifted in helping undergraduates develop their research talents and skills. Their students look to them not just as advisors, but also as trusted friends. They have an enormous impact on the careers of their students as they contribute to the body of scientific knowledge.

CUR honored Joe and Tom this year, but in recognizing them, we also recognize and encourage the many other faculty members who are achieving the same goals.

Left to right: CUR Fellows Tom Wenzel (left) and Joe Gallian (right) meet John Idoux (center), CUR Treasurer and co-chair of the CUR Fellows Committee after their talks at the National Conference, June 2002
CUR Fellow Tom Wenzel displays enantiomers of a molecule (mirror image versions of the same chemical composition) for his talk at the CUR 2002 National Conference
CUR Fellow Joseph Gallian displays his award plaque after the CUR 2002 National Conference.
Student Alison Greoger holds yeast cultures for her mentor, Mary Miller of Rhodes College, to see her research results. “My experience this summer gave my life a clearer sense of direction. Dr. Miller broadened my understanding of career possibilities and her example cultivated my enthusiasm and joy for research,” she commented.
CUR INSTITUTIONAL MEMBERS
2000-2002

Adelphi University
Agnes Scott College
Albany State University
Albion College
Albright College
Alfred University
Allegheny College
Ana G. Méndez University System
Andrews University
Appalachian State University
Arcadia University
Ashland University
Assumption College
Augustana College
Augustana College
Austin College
Baldwin-Wallace College
Barnard College
Bates College
Beloit College
Benedictine University
Berea College
Berry College
Birmingham-Southern College
Bloomsburg University
Boston University
Bradley University
Bridgewater State College
Brigham Young University
Bryn Mawr College
Bucknell University
Butler University
California State Polytechnic University-Pomona
California State Polytechnic University-San Luis Obispo
California State University-Bakersfield
California State University-Chico
California State University-Fullerton
California State University-Long Beach
California State University-Monterey Bay
California State University-Northridge
California State University-Sacramento
California State University-San Bernardino
California University of Pennsylvania
Calvin College
Cameron University
Canisius College
Carleton College
Carroll College
Carthage College
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Central Missouri State University
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Chapman University
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Colgate University
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College of Saint Benedict
College of the Holy Cross
Colorado College
Concord College
Concordia College-Moorhead
Connecticut College
Davidson College
Denison University
DePauw University
Dickinson College
Dillard University
Dominican University of California
Drew University
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Duquesne University
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East Stroudsburg University
Eastern Illinois University
Eastern Michigan University
Eastern Oregon University
Eckerd College
Elizabeth City State University
Elizabethtown College
Elmhurst College
Elon University
Emory University
Fairfield University
Fairmont State College
Florida A & M University
Florida Gulf Coast University
Fort Lewis College
Franklin & Marshall College
Frostburg State University
Furman University
Gannon University
Georgia College & State University
Georgia Southern University
Gettysburg College
Gordon College
Goucher College
Grand Valley State University
Grinnell College
Guilford College
Gustavus Adolphus College
Hamilton College
Hamline University
Hanover College
Hartwick College
Harvey Mudd College
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Henderson State University
Hendrix College
Hobart & William Smith Colleges
Hope College
Idaho State University
Illinois Wesleyan University
Immaculata College
Indiana State University
Indiana University Purdue University Indianapolis
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Ithaca College
Jacksonville University
James Madison University
John Carroll University
Johnson C. Smith University
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Kalamazoo College
Kean University
Keene State College
Kennesaw State University
Kent State University
Kenyon College
King's College
Knox College
La Salle University
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Lafayette College
LaGrange College
Lake Superior State University
Lamar University
Lawrence University
Lebanon Valley College
Lewis & Clark College
Linfield College
Lock Haven University of Pennsylvania
Longwood College
Loyola Marymount University
Loyola University
New Orleans
Luther College
Lynchburg College
Lyon College
Macalester College
Manhattan College
Marietta College
Marist College
Marshall University
Mary Washington College
Marymount University
Maryville College
Mercer University
Meredith College
Mesa State College
Miami University
Michigan Technological University
Middle Tennessee State University
Middlebury College
Milikin University
Millaps College
Minnesota State University-Mankato
Minnesota State University-Moorhead
Mississippi University for Women
Missouri Southern State College
Missouri Western State College
Montclair State University
Moravian College
Mount Holyoke College
Mount Saint Mary's College and Seminary
Muhlenberg College
Murray State University
Muskingum College
National Aeronautics and Space Administration
Nazareth College of Rochester
Nebraska Wesleyan University
New College of Florida
New Jersey City University
Niagara University
North Carolina A&T State University
North Carolina Central University
North Central College
North Georgia College & State University
Northeastern State University
The Council on Undergraduate Research thanks its many friends who generously give to support CUR programs, including the undergraduate summer research fund, CUR National Conferences, CUR publications, and general operating support. In addition to the monetary gifts that are recognized below, we would like to acknowledge the many institutions and individuals who have provided in-kind services and resources. We particularly thank the colleges and universities who have hosted meetings and provided travel support and release time for their faculty and administrators to attend our council and board meetings. These institutions, together with our institutional members, provide critical support to the mission of CUR.

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THE COUNCIL ON UNDERGRADUATE RESEARCH STATEMENTS OF FINANCIAL STATEMENT

FOR YEARS ENDED JUNE 30, 2002 AND 2001
SUPPLEMENTAL STATEMENT OF REVENUE AND EXPENSES BY PROGRAM

FOR YEARS ENDED JUNE 30, 2002 AND 2001
GOALS FOR 2003 AND BEYOND

CUR’s goals for the immediate future are to solidify its programming in the natural, physical, and social sciences while expanding opportunities to serve whole campuses with the undergraduate research message. We will do so by expanding our CUR Consulting and Mentoring programs, as well as our CUR Institutes and other meetings. We will offer programming on-site as well as at professional meetings. We will continue to improve our services to faculty and administrators at minority-serving institutions, to our Canadian friends, and to colleagues at research universities that share our central values and goals.
POSTSCRIPT
CUR could not provide its programs without the support and hard work of our individual members and all those who volunteer to produce the content of CUR programs. We thank you. We ask all who share our mission to provide advice and suggestions so that we can continually improve our services and our effectiveness in promoting undergraduate research.