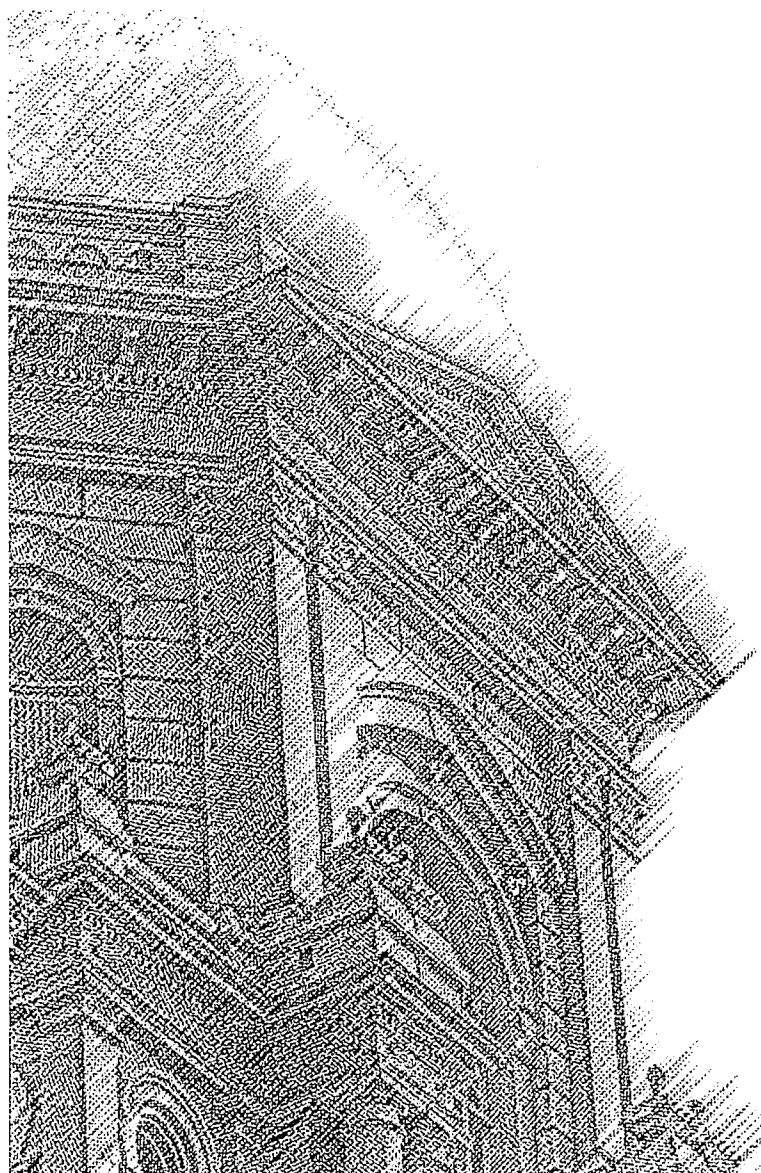


Notre Dame Report



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Faculty Notes

Honors

Kate Abramson, assistant professor of philosophy, has been named the first winner of the Jean Hampton Prize for her paper "Hume on Cultural Conflicts."

Cara Carroccia, assistant professor of architecture, was elected to the vice presidency of the Northern Indiana Chapter of the American Institute of Architects.

LeRoy J. Krajewski, Daley professor of manufacturing strategy, management department, has been elected president of Decision Sciences Institute.

Peter E. Schiffer, assistant professor of physics, has been selected an Alfred P. Sloan Research Fellow by the Alfred P. Sloan Foundation.

Dennis J. Stark, director of aquatics and assistant professor of physical education, received the Laura Fountain Award for interest and promotion of the Special Olympics Program.

Activities

Kate Abramson, assistant professor of philosophy, gave the talk "A Truly Humean Account of Cultural Conflicts of Values" at a meeting of the Western Society for Eighteenth Century Studies, Feb. 13.

J. Matthew Ashley, assistant professor of theology, gave the talk "Ignation Spirituality and Married Life" at Weston Jesuit School of Theology in Cambridge, Mass., Feb. 3.

Joseph Blenkinsopp, O'Brien professor of theology, conducted the seminar "Sacrifice and Social Maintenance in Ancient Israel and Early Judaism" at the University of Sheffield in Sheffield, U.K., Sept. 22. He gave the lecture "The Literary Character of Miracle Narrative Exemplified by the Miracles of Elisha and Hanina ben Dosa" at Oxford University in Oxford, U.K., Jan. 20. He conducted the seminar "Politics and Religion in Achaemenid Judah" at Cheltenham and Gloucester College of Higher Education in Cheltenham, U.K., Jan. 14; and to the theology faculty at Oxford University in Oxford, U.K., Feb. 9. He is the visiting professor at the Pontifical Biblical Institute, Rome, Italy, spring semester.

Paul F. Bradshaw, professor of theology, gave the lecture "Continuity and Change in Early Eucharistic Worship: Shifting Scholarly Perspectives" to the British Ecclesiastical History Society meeting at London University in London, U.K., Jan. 10.

Jianguo Cao, associate professor of mathematics, presented a series of five lectures titled "Geometric Analysis Via Gromov's Methods" at Beijing University in Beijing, China, Jan. 2-12.

Cara Carroccia, assistant professor of architecture, gave the presentation "Government Affairs and Architects" for the Northern Indiana Chapter of the American Institute of Architects at the Grassroots Leadership Conference for the American Institute of Architects in Washington, D.C., Feb.

Daniel J. Costello Jr., chairperson and professor of electrical engineering, presented the talk "The Genesis of Coding Theory" at the 1998 IEEE Information Theory Workshop in San Diego, Calif., Feb. 10.

Mitchell S. Dushay, research assistant professor of biological sciences, delivered the interdepartmental seminar on insect immunity "Recent Discoveries in the Study of 18W and Relish's rde in *Drosophila* Immunity" at Stockholm University, Nov. 13-18.

Richard M. Economakis, assistant professor of architecture, co-designed a masterplan for an urban extension and a new urban settlement in the fishing village of Göcek sponsored by Enternasyonal Turizm, a subsidiary of Yapi Kredi Bank of Istanbul, with Victor Deupi, Cemal Mutlu and Talha Gencer, in Göcek, Turkey, Dec. 15-22.

Keith J. Egan, adjunct professor of theology, presented "Meals of Jesus" at Little Flower Parish in South Bend, Ind., Dec. 7. He presented "The Eucharistic Prayer" to confirmation candidates and sponsors in Farley Hall at the University of Notre Dame in Notre Dame, Ind., Jan. 19.

Douglas Fishkind, assistant professor of biological sciences, gave the invited seminar "Actin-Myosin Structure Function in Cell Division" at the international symposium on Molecular Mechanisms of Cytokinesis at the Komaba Eminence Center at the University of Tokyo in Tokyo, Japan, Jan. 27-29.

Malcom J. Fraser Jr., associate professor of biological sciences, presented "The PiggyBac Transposable Element for Transgenic Engineering of Insects" at the Keystone symposium on Molecular and Cellular Biology in Taos, N.Mex., Jan. 9-15.

James A. Glazier, associate professor of physics, gave the invited seminar "A Physicist Looks at Development" to the Department of Physics at Ohio State University in Columbus, Ohio, Feb. 4.

David R. Hyde, associate professor of biological sciences, gave the invited seminar "Insights of the Role of a Novel Phospholipid Transfer Protein in the Vertebrate and Invertebrate Photoreceptor" and presented the poster "Functional Analysis of the Vertebrate and Invertebrate RdgB Protein in Photoreceptors" with **Joseph E. O'Tousa**, associate professor of biological sciences, at the Johnson and Johnson Focused Giving symposium in New Brunswick, N.J., Dec. 1-2. He gave the seminar "Using Genetic Models of Retinal Degeneration to Explore Neuronal Function" at the Department of Neurobiology at the University of Alabama in Birmingham, Ala., Dec. 14-16.

David M. Lodge, associate professor of biological sciences, gave the invited talk "Ecological Impacts and Mechanisms of Invasion by the Crayfish *Orconectes rusticus*" at the 59th Midwest Fish and Wildlife Conference in Milwaukee, Wis., Dec. 8-10.

Rev. Donald P. McNeill, C.S.C., professional specialist and director of the Center for Social Concerns and concurrent associate professor of theology, presented a reflection on "The Challenge of Service Learning" for the Aurora-Fox Valley Notre Dame Club Communion Breakfast in Geneva, Ill., Jan. 11.

Alvin Platinga, O'Brien professor of philosophy, gave the presentation "An Evolutionary Argument Against Naturalism" at the Hauptvortrag at the V Kongress Der Oosterreichischen Gesellschaft fur Philosophie in Innsbruck, Austria, Feb. 3.

Jean Porter, professor of theology, gave the lecture "'Mere History': The Significance of History for Theological Ethics" at the Department of Religious Studies at Stanford University in Palo Alto, Calif., Jan. 15.

Joachim J. Rosenthal, associate professor of mathematics, presented the paper "On Output Feedback Invariants and Cascade Equivalence of Systems" co-authored with M.S. Ravi and U. Helmke, and the paper "Some Interest-

ing Problems in Systems Theory which are of Fundamental Importance in Coding Theory" at the 36th IEEE Conference on Decision and Control in San Diego, Calif., Dec. 10-12.

David W. Severson, associate professor of biological sciences, presented the invited seminar "Molecular Genetics and Mosquito Biology" in the Department of Entomology at Michigan State University in East Lansing, Mich., Feb. 2-3.

Gregory L. Snider, assistant professor of electrical engineering, gave the invited talk "Experimental Demonstration of Quantum-dot Cellular Automata" at the Gordon Conference on Magnetic Nanostructures in Ventura, Calif., Jan. 25-30.

Billie F. Spencer Jr., professor of civil engineering and geological sciences, delivered the invited lectures "Magnetorheological Dampers: Seismic Application of Smart Materials" and "Stochastic Damage Model for Brittle Materials Subjected to Monotonic Loading" at the workshop on Stochastic Dynamics and Fracture Mechanics at the Institute of Engineering Mechanics at Leopold-Franzens Universitat in Innsbruck, Austria, Jan. 20.

J. Kerry Thomas, Nieuwland professor of chemistry, presented the lecture "Radiation Induced Process at Surfaces" at Gunma College in Maebasi, Japan, Jan. 19. He presented the lecture "Radiation Damage to Solid Systems" at the Nippon Electric Company in Kawasaki City, Japan, Jan. 20. He reviewed the Radiation Research Programme at the High Energy Radiation Center at Osaka University in Osaka, Japan, Jan. 21. He presented the seminar "Ionic Reactions in Zeolites" at the Japanese Radiation Research meeting at Osaka University in Osaka, Japan, Jan. 23. He presented the seminar "Clusters Within Clusters" at the Cluster Science meeting at the Materials Institute in Tsukuba City, Japan, Jan. 29.

Publications

Charlotte A. Ames, librarian, wrote "To Preserve or To Perish: A Call for Action" published in *Catholic Library World*, vol. 68, Dec. 1997, pages 44-48.

Joseph P. Bauer, professor of law, co-authored "1998 Cumulative Supplement to *Federal Antitrust Law Treatise*" with Earl W. Kitner, Cincinnati, Ohio: Anderson Publishing Co., 1998, vol. I, 55 pages; vol. II, 372 pages; vol. III, 78 pages; vol. IV, 78 pages; vol. V, 37 pages; vol. VI, 60 pages; vol. VII, 34 pages; vol. VIII, 96 pages; vol. IX, 49 pages, vol. X, 36 pages.

Joseph Blenkinsopp, O'Brien professor of theology, wrote "The Servant and the Servants in Isaiah and the Formation of the Book" published in *Writing and Reading in the Scroll of Isaiah, Studies of an Interpretive Tradition*, edited by C.C. Broyles and C.A. Evans, vol. 1, pages 155-175.

Jaroslav Zajicek, associate professional specialist in chemistry and biochemistry, and **Francis J. Castellino**, dean of science, Kleiderer-Pezold professor of biochemistry and director of the Center for Transgene Research, co-authored "Metal-ion Binding Properties of Synthetic Conantokin-G" with Tamas Blandl and Mary Prorok, published in *Biochemistry Journal*, vol. 328, 1997, pages 777-783.

Patricia M.Y. Chang, assistant professor of sociology, co-authored "Church-Agency Relationships and Social Service Networks in the Black Community of New Haven" with Dayid R. Williams, Ezra E.H. Griffith and John L. Young, published in *Sacred Companies: Organizational Aspects of Religion and Religious Aspects of Organizations*, Oxford, England: Oxford University Press, 1998, pages 340-348.

Roberto A. DaMatta, Joyce professor of anthropology, wrote "O Mercosul e a Sociedade: Em Torno das Trocas Economicas e da Integração Cultural" published in *O Mercosul e a Integração Sul-Americana: Mais do a Economia*, Brasília: Fundação Alexandre Gusmão, 1998, pages 101-116.

Jay P. Dolan, professor of history, wrote "The Search for an American Catholicism, 1780-1820" published in *Religious Diversity and American Religious History*, edited by Walter H. Conser Jr. and Sumner B. Twiss, Athens, Ga.: University of Georgia Press, 1997, pages 26-51.

Alan Dowty, professor of government and international studies and fellow in the Kroc Institute, co-authored *The Role of Domestic Politics in Israeli Peacemaking* with Ian Peleg, Abraham Diskin, Ehud Sprinzak, Hillel Frisch and Hans-Joachim Lauth, Jerusalem, Israel: Davis Institute for International Relations and Konrad Adenauer Foundation, 1997, 74 pages.

Richard M. Economakis, assistant professor of architecture, was cited in the fifth edition of *Greek Architecture*, by A.W. Lawrence, revised by R.A. Tomlinson, for his book *Acropolis Restoration*, New Haven, Conn.: Yale University Press, 1997.

Keith J. Egan, adjunct professor of theology, wrote "Salvadoran Diary" published in *Courier*, vol. 72, no. 4, winter 1997, pages 14-16. He wrote "Toward a Better Understanding of Christian Spirituality," a review of *Understanding Christian Spirituality* by Michael Downey, published in *Christian Spirituality Bulletin*, vol. 5, no. 2, fall 1997, pages 23-24. He wrote a review of *El Solar Carmelitano de San Juan de la Cruz: La Antigua Provincia de Castilla*, published in *The Catholic Historical Review*, vol. 83, no. 4, Oct. 1997, pages 735-736.

Leonid Faybusovich, associate professor of mathematics, co-authored "Long-Step Math-Following Algorithm for Convex Quadratic Programming Problems in a Hilbert Space" with J.B. More and communicated by W.B. Gong, published in *Journal of Optimization Theory and Applications*, vol. 95, no. 3, Dec. 1997, pages 615-635.

Guillermo J. Ferraudi, professional specialist in the Radiation Laboratory, co-authored "Efficient Substitutional Photochemistry of a Third-Row Transition Metal β -diketonate" with Richard J. Lavalley, Bentley J. Palmer, Roland Billing, Horst Henning and Charles Kutal, published in *Inorganic Chemistry*, vol. 36, no. 24, 1997, pages 5552-5558.

Stephen A. Fredman, professor of English, co-authored "First Annotations to Edward Dorn's *Gunslinger*" with Grant Jenkins, published in *Sagetrieb*, vol. 15, no. 3, winter 1996, pages 57-176.

Jacek K. Furdyna, Marquez professor of physics, **Albert-László Barabási**, assistant professor of physics, **Malgorzata Dobrowolska-Furdyna**, associate professor of physics, and **James L. Merz**, vice president for graduate studies and research and Freimann professor of electrical engineering, et al., co-authored "Self-Assembled Growth of II-VI Quantum Dots" published in *Nuclear Optics*, vol. 18 (2-4), 1997, pages 85-92.

Dirk M. Guldi, associate professional specialist in the Radiation Laboratory, co-authored "Octaethylcorrphycene and its Metal Complexes. Radiolytic Reduction Studies" with Pedatsur Neta, Andreas Heger, Emanuel Vogel and Jonathan L. Sessler, published in *The Journal of Physical Chemistry A*, vol. 102, no. 6, 1998, pages 960-967. Guldi and **Klaus-Dieter Asmus**, professor of chemistry and biochemistry, co-authored "Anion Radicals of Mono- and Bisfunctionalized [60]fullerene Derivatives. Evidence for ^{13}C Satellites in their EPR Spectra" with V. Brezova, A. Stasko, P. Rapta and K.-P. Dinse, published in *Magnetic Resonance in Chemistry*, vol. 35, 1997, pages 795-801.

Catherine Perry, assistant professor of Romance languages and literatures, wrote "In the Wake of Decadence: Anna De Noailles' Revaluation of Nature and the Feminine" published in *L'Esprit Créateur*, vol. 37, winter 1997, pages 94-105.

Teresa Godwin Phelps, professor of law, wrote the review "Syndrome Logic" of *More Than Victims: Battered Women, the Syndrome Society, and the Law* by Donald Alexander Downs, published in *The Review of Politics*, vol. 59, no. 4, fall 1997, pages 949-951.

Simon M. Pimblott, associate professional specialist in the Radiation Laboratory, co-authored "Competition Between Geminate Recombination and Reaction with a Macromolecule" with Charlotte E. Bolton, Nicholas J.B. Green and Rachel Harris, published in *The Journal of Physical Chemistry*, vol. 102, no. 4, 1998, pages 730-739.

James E. Robinson, professor of English, wrote a review of *Impersonations: the Performance of Gender in Shakespeare's England*, by Stephen Orgel, published in *Comparative Drama*, vol. 31, no. 4, winter 1997-98, pages 604-607. He wrote "Sisyphus Happy: Beckett Beyond the Absurd" published in *Samuel Beckett: Crossroads and Borderlines*, edited by Emmanuel Jacquot, et al., Amsterdam, the Netherlands: Rodopi, 1997, pages 343-351.

Valerie Sayers, professor of English, published a review of Frederick Barthleme's *Bob the Gambler* in *Commonweal*, Feb. 13, 1998.

Robert P. Schmuhl, chairperson and professor of American studies, wrote "Creating Civic Connections" published in *The Public Voice in a Democracy at Risk*, edited by Michael Salvador and Patricia M. Sias, Westport, Conn.: Praeger, 1998, pages 11-12. He wrote "No Escape" published in *Chicago Tribune Books*, Feb. 8, 1998, page 3. He wrote "An Examination of the Moral Responsibilities of a Free Press," a review of *Sentinel Under Siege: The Triumphs of America's Free Press* by Stanley E. Flink, published in *Chicago Tribune Books*, Dec. 21, 1997, pages 4, 8.

Maoyo Shang, adjunct research professor of chemistry and biochemistry, and **Thomas P. Fehlner**, Grace-Rupley professor of chemistry, co-authored " $\text{Cp}^*\text{TaCl}_2\text{B}_4\text{H}_8$: Synthesis, Crystal Structure and Spectroscopic Characterization of an Air-Stable, Electronically Unsaturated, Chiral Tantalaborane" with Simon Aldridge and Hisako Hashimoto, published in *Chemical Communications*, 1998, pages 207-208.

J. Kerry Thomas, Nieuwland professor of science, Department of Chemistry and Biochemistry, co-authored "Photoinduced Reactions in Porous Systems: Reactions at the Solid-Liquid Interface" with Robert J. Kavanagh, published in *Langmuir*, vol. 14, 1998, pages 352-362.

Barbara Walvoord, director of the Kaneb Center and concurrent professor of English, wrote *Effective Grading: A Tool for Learning and Assessment* published by Jossey-Bass.

Carolyn Y. Woo, Gillen dean of business administration and Siegfried professor of management, co-authored "Initial Human and Financial Capital as Predictors of New Venture Performance, with Arnold Cooper and F. Javier Gimén-Gascón, published in *The Journal of Private Equity*, vol. 1, no. 2, winter 1997, pages 13-30.

Documentation

University Committee on Libraries

January 14, 1998

The meeting was called to order at 7:30 a.m. the Morris Inn Council Room by chairman John Halloran. Also in attendance were John Adams, Harvey Bender, Maureen Boulton, Roger Jacobs, Alan Krieger, David Mengel, Larry Rapagnani, Laurence Taylor, Rev. Reginald Whitt, O.P., Jennifer Younger, guests Joanne Bessler and Maureen Gleason, and secretary Melodie Eiteljorge.

The minutes of the meeting of December 10, 1997, were approved as written.

Halloran welcomed Rev. Reginald Whitt, O.P., who is the law school representative. Contacts have been made to fill the remaining student vacancy on the committee with an undergraduate student.

The minutes of the meeting of December 10 were approved as distributed via e-mail. The agenda was also distributed via e-mail.

Director's report: Younger reported that she has talked to Geoff Freeman, an architect from Shepley Bulfinch Richardson and Abbott, the firm hired as space consultants for the libraries. He will resubmit a proposal to include a review of programmatic requirements. Bender asked how many non-library offices in the Hesburgh Library building will be relocated. Younger replied that it is her understanding that all will be under library control except the 14th floor, the president emeritus and vice president emeritus offices, the University Archives and the Medieval Institute. Everything in the basement will be moved except telephone equipment.

AGENDA:

The Faculty Senate's Proposal Concerning Electronic Services at the University's Libraries:

Last semester Maureen Gleason distributed to the committee her response to Gregory Sterling and the senate on this issue. At this time she thought it might be useful to expand on the subject of electronic resources in the libraries. She noted that three general statements can be made about them:

1. Their numbers are steadily increasing and that growth will continue to accelerate;
2. In only a minuscule number of cases has an electronic resource substituted for a print resource, although this will gradually change;
3. At Notre Dame, additional funding from the University and especially from endowments has allowed us to avoid cutting back the number of print items we acquire.

The libraries currently subscribe to approximately 100 databases. These are mainly indexes, but they also include encyclopedias, dictionaries, almanacs, collections of serial publications (some with full text), and services providing a variety of databases. Of these, 47 percent are networked, available from your desktop, on campus or at home; 33 percent are available from stand-alone CD-ROM workstations, or from the Business Information Center (BIC); 18 percent are mounted on a CD-ROM server, which is accessible from computers running NT (many databases do not have a Mac version, and the NT route is what we must use now to make them available beyond the libraries). They cover a variety of subject areas. These include: 22 percent which are general or interdisciplinary; 21 percent in business/economics, including what is in the BIC; 17 percent in science and technology; 12 percent in history and humanities; 9 percent in social science; 7 percent in government; and 5 percent in art and architecture.

The libraries also provide formal access to about 170 journals in electronic format, not including some free ones accessible through the Web. Of these, 26.8 percent are a result of our subscription to Project Muse; 21.3 percent are a result of our subscription to JSTOR; 13.4 percent are Springer Verlag journals; 11 percent are Institute of Physics journals; 5.5 percent are American Institute of Physics journals; 4.3 percent are American Mathematical Society journals; and 17.7 percent are from a variety of other sources. With the exception of Project Muse and JSTOR journals, the great majority are received as a result of a print subscription, some on trial.

In addition to these electronic resources, we have hundreds of CD-ROMs received as a result of our status as a United States government document partial depository.

We also have electronic resources texts and images ordered on a one-time basis. Examples of these are Works of Kant, Karl Barth, et al.; an edition of Beowulf; results of the 1989 U.S.S.R. population census; Vatican council documents; and CD-ROM on Virginia Woolf.

Determining the exact amount spent on electronic resources in any given year is difficult because they are charged to a number of funds. Our cost estimate does not include all one-time purchases or major backfiles. Roughly 8 percent of our materials budget for fiscal year 1996-97 was spent on electronic resources, compared to an average of 6.7 percent in 1995-96 from a survey of the 40 largest Association of Research Libraries (ARL) institutions. Many spend significantly more; since then the amount has been rapidly increasing, and it is difficult to count.

A finite amount of money has always required difficult choices among possible acquisitions, even when all of the alternatives were printed on paper, or perhaps microfilm. The proliferation of resources in electronic format has increased the difficulty and made the

decision making process much more complex. There are many more options to choose from in acquiring the same, or similar, intellectual content. There are difficulties in making electronic versions available to our users. Costs, except for some individual texts, are almost always more than for the print equivalent, and sometimes significantly more. Licensing negotiations have become increasingly more complicated. Acquisitions procedures are complicated by the fact that often we do not receive, and cannot check in, a tangible item.

A simple, straightforward acquisitions process, as with print, is no longer possible. While some electronic resources can be covered by ordinary department allocations or endowment accounts, many large and interdisciplinary databases require separate funding, and so we have a line in our acquisitions budget called resource delivery. The technical complexities of access, the variations in each software, possible restrictions imposed by licensing, and the need for special acquisitions procedures require investigation by representatives from units across the libraries whose knowledge can be drawn on. Thus, we have formed an Advisory Committee on Electronic Resources (ACER) to ensure necessary consultations within the library.

Electronic resources are expensive and compete with other desirable acquisitions. To ensure that the overall resource goals of the libraries are being met, a joint group drawn from ACER and the Collection Development Committee meet to recommend on individual acquisitions as well as on budget allocations for electronic resources. During the past year it became obvious that, although individual subject librarians/liaisons can speak to the appropriateness and quality of the resource's content, we needed someone with the technical knowledge and familiarity with licensing provisions to negotiate with vendors, to gather information, and to coordinate the process. Thus, Carole Richter was appointed coordinator for electronic resources.

Halloran asked if there is any equivalent of an approval plan for electronic resources. Gleason replied that there is not. Some are too expensive to fit into such a plan, and there are so many alternatives that they almost have to be looked at separately. Over the years this will be simplified to some extent.

Bender asked if Gleason might meet with the Faculty Senate subcommittee to directly address their concerns. Younger stated that she did meet with them, but she agrees it might be useful for Gleason to provide this kind of factual report.

Boulton asked if the smaller CD-ROMs are cataloged. Gleason replied that the 2,000 government document CD-ROMs are housed in the Document Center. We catalog CD-ROMs as we would any addition.

Gleason distributed copies of an article from the December 29, 1997, *New York Times*: "Concerns About an Aggressive Publishing Giant." She noted that this article illustrates some of the difficulties we encounter. Serial prices continue to be a problem. This has been made more difficult by the advent of electronic versions of these serials. Publishers are packaging print and electronic serials and using various pricing schemes.

Adams asked if there is a mechanism in place to monitor usage. Gleason replied that many products have built-in monitors. For instance, JSTOR and Project Muse generate monthly reports. First Search provides reports on usage of various databases.

Boulton asked if there will be preservation problems down the line. Gleason replied that there will be and that a great deal of discussion is taking place regarding who is responsible. There have been some efforts on the part of the Online Computer Library Center (OCLC) to archive. Younger added that the Center for Research Libraries (CRL) may also be a player in archiving electronic resources.

Circulation of Serials in the Hesburgh Library:

Joanne Bessler reported that since 1994-95 User Services has been looking at various factors that affect patron access to serials. They have identified needs for more microform equipment and for a faster shelving turn-around. In continuing to look at this, one factor to emerge was circulation in the Hesburgh Library. The branches are separate. Based on patron complaints, a subcommittee of the Serials Access Group (SAG) was formed to review the current loan period.

Currently the policy is that journals circulate five days with renewal. The subcommittee conducted an electronic survey of peer institutions regarding circulation of items that come out more than once a year. Of nine responses, six indicated that they do not circulate these items at all. One allowed a four-week borrowing period, and one varied the policy by discipline. The committee next placed questionnaires at service points, asking patrons why they were checking out journals. Many indicated that they take them to photocopy off-site, either because it's cheaper (or free), or because of quality.

The subcommittee is now recommending a change in policy. This will be presented to SAG next week, and Bessler thought it would be useful to get input from UCL prior to that. The recommendation is that the loan period be reduced from five days to two, that we eliminate automatic renewals, and that we institute a serious fine structure for overdue items.

Adams asked if there would be any consideration for older journals that take a day to reach the branches from the main library. Currently they are checked out when they leave Hesburgh. Bessler replied that we are looking at document delivery and will build in travel time.

Jacobs asked if the committee considered establishing a competitive photocopy service in the libraries. Bessler replied that she has alerted Robert

Wittorf, assistant director for administrative services, to this issue. However, she feels improved copy service is more of a long-term solution and that we need something for the short term.

Younger inquired about photocopy charges in the departments. Boulton replied that it varies. Some departments provide free copy service. Younger noted that it might be possible to have department copy cards that can be used in the library.

Bender stated that he agrees with the first two proposals but not the last regarding fines. He feels there are some special privileges that should be provided to faculty and that, in turn, they should be responsible. He agrees with the idea of using faculty numbers/cards in the library. He noted also that generally copies are sharper for graphics, etc., in the departments than at the self-serve machines in the library.

Bessler agreed that we need to look at copy services. She noted, however, that most of the borrowing is by students, not faculty. They are paying less off site. In regard to fines, we already charge faculty fines for recalls that are overdue.

Bender asked if we have considered changing to a no circulation policy and subsidizing all copying. Bessler replied that the committee did look at that option. It might be preferred in a few years. For now, however, there are not enough copy machines in place for people to get quick copies. Any frustration might lead to mutilation of journals. In the future ID cards might be used to charge copies, but that is not yet in place. The subcommittee's recommendations are a short-term step.

Jacobs stated that he would like to see further discussion of Bender's suggestion regarding fines. Would faculty members see this as an insult or not?

Younger stated that she feels faculty are more responsive to restricted usage than to fines.

Boulton agreed that the \$10 fine for overdue recalls does focus the mind. However, short-term notice can be a problem when one is away from the University for a conference, etc.

Bessler stated that circulation staff are aware of problems with short notice. They are not eager to impose fines, but they are eager to get serials back. At this point 40 percent of serials that circulate stay out overdue. The subcommittee's questionnaire indicated that 55 percent of journals checked out are for the purpose of obtaining photocopies.

Younger stated that it is clear we need to provide better and cheaper copies.

Mengel pointed out that there is a difference in journals and the age of journals. In the Medieval Institute, for instance, there are some very old journals. Bessler responded that some libraries sort by age of journal, by discipline, or by a combination. At this point the committee is not recommending that we sort by age. It is also assumed that supervisors at check points will recognize exceptions.

Bessler asked if there was any objection to the recommendation that we have no automatic renewal. There was none.

In turning back to the issue of fines, Rapagnani stated that dropping the time period to two days with no renewal without any accountability would not help. Bender stated that he feels we should move toward a no circulation policy with appropriate copy facilities. Meanwhile, we should keep the current policy in place.

Adams stated that for him a no circulation policy would be unacceptable. In working with visual material, there are many cases when one needs to see the original.

Boulton suggested that with a no circulation policy we could state that moving an item to a branch would not be considered "circulating." Younger agreed that this might be a good idea, assuming the branches had adequate copy service.

Jacobs noted that we only hear the complaints. When there are no problems with circulating material, we do not hear about it. Younger noted that with a five-day borrowing period, an item might receive only 100 uses in a year. Bessler stated that if we went immediately to a no circulation policy, we would rapidly run into problems. Younger pointed out that we do not necessarily need just one policy for all the libraries.

Bessler stated that this discussion demonstrates the complexity of this issue. She will bring it back to the committee at a later date.

Before adjournment, Boulton stated that she would like to have the issue of retrospective purchases on the agenda for a future meeting.

There being no further business, the meeting adjourned at 8:55 a.m.

Respectfully submitted,

Melodie Eiteljorge
Secretary

Faculty Board on Athletics

Summary of the Minutes Fall 1997

September 11, 1997

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Prof. Tex Dutile; Prof. Morton Fuchs; Prof. Joseph Guiltinan; Prof. Alexander Hahn; Prof. Kate Halischak, recorder; Prof. George Howard; Prof. Jerry Marley; Ms. Kristine Kramer; Prof. James McAdams; Prof. Patricia O'Hara; Prof. William Ramsey; Prof. Frank Reilly; Mr. Michael Wadsworth.

Visitor: Rev. Mark Poorman, C.S.C.

The meeting was called to order at 4:37 p.m.

The minutes of the May 2, 1997, meeting were accepted.

1. Father Beauchamp presented for board consideration the actions taken during the summer. The board reviewed the actions.

2. The board considered recommendations for the playing schedules of the following sports: Women's Basketball, Men's Basketball, Men's Golf (revised), Softball and Men's Swimming. The board voted approval of all schedules. [These lists are attached to the complete minutes and hereby incorporated by reference as an official part of the board minutes.] Professor Hahn requested that a calendar showing the dates being attached to the schedules. Father Beauchamp asked Dr. Halischak to provide such calendars in the future.

3. The board considered the names of Kari Hutchinson, Sheila McMillen and Mollie Peirick as captain candidates in Women's Basketball; and Berit Junker in Women's Track. After a brief discussion, the board voted approval of all names.

4. Father Beauchamp presented to the board a copy of the Appeal Procedure

for a student-athlete who has been denied a one-time transfer exception. He explained the nature of the NCAA rule and briefly outlined the procedure.

5. Mr. Wadsworth explained proposed changes in the Bowl Alliance that would affect the University's opportunities. Stating that the WAC and Conference USA are lobbying to gain a spot in the alliance, Mr. Wadsworth detailed the possible effects their admission would have on Notre Dame's bowl appearances. He stated that the discussion was ongoing among all the alliance schools. He will keep the board informed of developments.

6. Mr. Wadsworth asked if the board would be interested in a presentation on the Life Skills program developed by Tom Kelly and Frances Shavers for the student-athletes. The board affirmed their interest, and a presentation will be given at the next meeting.

7. For future meetings, Father Beauchamp asked Dr. Halischak to present material regarding the fifth year of eligibility and travel by first-year students to away games so that the board may continue its discussion of these issues.

There being no further business, the meeting was adjourned at 5:58 p.m.

October 14, 1997

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Prof. Tex Dutile; Prof. Morton Fuchs; Prof. Kate Halischak, recorder; Prof. George Howard; Prof. Jerry Marley; Ms. Kristine Kramer; Prof. James McAdams; Prof. Patricia O'Hara; Prof. William Ramsey; Mr. Michael Wadsworth.

Visitors: Rev. Mark Poorman, C.S.C., Dr. Tom Kelly, Ms. Frances Shavers, Mr. James Barrett.

Absent: Prof. Joseph Guiltinan; Prof. Alexander Hahn; Prof. Frank Reilly.

The meeting was called to order at 4:35 p.m.

The minutes of the September 11, 1997, meeting were accepted.

1. Father Beauchamp distributed a press release regarding the University's response to an incident involving the Stanford University band's performance at halftime of our recent football game at Stanford, a performance that was offensive to Catholics and Irish-Americans. The University condemns the bigotry displayed by the Stanford University band and accepts the letter of apology issued by Stanford President Gerhard Caspar. The board discussed the issue, adding its voice to President Malloy's condemnation (included in the press release) of the band's antics. Father Beauchamp pointed out that as a sanction the band will not be allowed to perform when Notre Dame visits Stanford again in 1999. The band has been banned from our campus since 1991; that ban has been extended indefinitely.

2. The board considered recommendations for the playing schedules of the following sports: Men's and Women's Fencing, Men's Lacrosse, Women's Lacrosse, Men's and Women's Indoor and Outdoor Track. The board voted approval of all schedules with the understanding that in Track, individual students would not miss more than three classes per class sequence.

3. The board considered the names of Nathan Borega, Benoit Cotnoir, Joe Dusbabek, Tyson Fraser and Brian Urick as alternate captain candidates in Hockey. After a brief discussion regarding the function of alternative captains in Ice Hockey, the board voted approval of all names.

4. Dr. Kelly and Ms. Shavers gave an overview of the Life Skills Program in the Department of Athletics. They ran a video that highlighted all areas of this assistance program, including academics, athletics, career, community service and personal development. Following the video, Ms. Shavers discussed specific programs that student-athletes have participated in this year. Dr. Kelly then gave an overview of the Agent Education program for athletes

looking at professional athletic careers. Board members asked questions and expressed their appreciation for these fine programs. On behalf of the board, Father Beauchamp thanked Dr. Kelly and Ms. Shavers for their presentations.

5. Dr. Halischak presented material regarding the history of the fifth year of eligibility policy. Father Beauchamp asked board members to review the material and prepare questions and topics for the November meeting.

There being no further business, the meeting was adjourned at 6:10 p.m.

November 11, 1997

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Prof. Tex Dutile; Prof. Morton Fuchs; Prof. Joseph Guiltinan; Prof. Alexander Hahn; Prof. Kate Halischak, recorder; Prof. George Howard; Prof. Jerry Marley; Ms. Kristine Kramer; Prof. James McAdams; Prof. Patricia O'Hara; Prof. William Ramsey; Prof. Frank Reilly; Mr. Michael Wadsworth.

The meeting was called to order at 7:35 a.m.

The minutes of the October 14, 1997, meeting were accepted.

1. The board considered recommendations for the playing schedule for Baseball. The board voted approval of this schedule.

2. The board considered the names of James Keenan, Todd Rassas, Burke Hayes and Alex Cade as captain candidates in Men's Lacrosse. After a brief discussion, the board voted approval of all names.

3. The board then turned its attention to the main item on the agenda: fifth year of eligibility. Dr. Halischak distributed a summary of comments by board members regarding the current policy and possible changes. The board then entered into a discussion about the following topics: 1) the definition and practice of "red-shirting"; 2) who is eligible for a fifth year; 3) the

merit of and nature of the academic program in the fifth year; 4) whether a fifth year can be for a single semester; and 5) how to monitor the academic performance during the extra year.

Father Beauchamp reiterated the University policy that there shall be no organized "red-shirt" program in any sport. On an exception basis, student-athletes may be granted eligibility after their eighth semester by petitioning the Faculty Board on Athletics with the support of their head coach and the athletic director. Professor Guiltinan noted that an important element of the current policy is the explicit statement that a fifth year of eligibility should be judged on the benefit to the student-athlete.

As to the question of who is eligible for a fifth year, Father Beauchamp noted that student-athletes who missed a year of competition due to injury have been viewed differently than those who simply did not compete in a given year. Professor Guiltinan questioned whether individuals who miss a year due to injury be allowed to meet less stringent academic criteria than those who miss a year due to physical immaturity (e.g., a freshman football player who really lacks the strength to compete against fifth-year seniors). As he pointed out, neither condition is under the student-athlete's control.

The board also discussed the merit of and nature of academic programs for students in their extra year. Professor Ramsey questioned how we interpret "academic merit" as defined in the policy. Professor Guiltinan offered that perhaps the board should gather input from academic advisors in the student's major as well as from Academic Services for Student-Athletes. He also asked if the board should construct a list of indicators (e.g., opportunity to complete a second major or a concentration; taking a set of courses to better prepare for a graduate program) to guide students in their academic planning as well as to facilitate the board's evaluation of the academic merits for the case. Professor Hahn proposed that the fifth-year prospect would set up an interview with an ap-

appropriate faculty member (or two), the purpose of which would be a thorough discussion of the future plans of the fifth-year candidate and the development of a suitable program of courses for the fifth year. The candidate should then craft a careful statement of at least one full page that makes reference to the conversation with the faculty member and addresses his or her plans. Professor McAdams agreed and stated the applicants be required to justify their request by spelling out their academic plans.

This led to a conversation about whether students request an additional semester or year. Professor O'Hara pointed out that the board has not considered a semester plan in the past and to do so would constitute a change. Several board members pointed out cases in which a semester plan would make sense and be of benefit to the student.

Regarding the academic performance during the extra semester or year, Professor Fuchs proposed: If a student-athlete's midterm GPA falls below a 2.0, that student-athlete will no longer be eligible to participate in that sport. The board discussed this issue at length.

Lastly, Father Beauchamp proposed that a written application (requesting information deemed necessary by the board) would be in order. He asked Dr. Halischak to provide a sample application for a fifth year of eligibility at the next meeting.

There being no further business, the meeting was adjourned at 9:05 a.m.

December 2, 1997

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Prof. Tex Dutile; Prof. Morton Fuchs; Prof. Alexander Hahn; Prof. Kate Halischak, recorder; Prof. George Howard; Prof. Jerry Marley; Ms. Kristine Kramer; Prof. James McAdams; Prof. Patricia O'Hara; Prof. Frank Reilly; Mr. Michael Wadsworth.

Absent: Prof. Joseph Guiltinan; Prof. William Ramsey.

Visitor: Rev. Mark Poorman, C.S.C.

The meeting was called to order at 4:39 p.m.

The minutes of the November 11, 1997, meeting were accepted.

1. The board considered recommendations for the playing schedules for Men's Golf and Women's Golf. The board voted approval of these schedules.

2. The board considered the recommendations for monograms in Men's Cross Country and Women's Cross Country. The board voted approval.

3. The board then considered the recommendations for monograms in Football. The board engaged in a discussion regarding exceptions being made for individuals who had not earned the requisite number of playing minutes to qualify outright for a monogram. Professor Dutile spoke in favor of the set standard while several board members voiced support for the coach's request for an exception. Following the discussion, the board voted approval for all nominated.

4. The board considered the recommendations for monograms in Men's Soccer. The board voted approval.

5. Father Beauchamp asked for board approval for Ben Simon and Joe Dusbabek, members of the Hockey team, to participate with the U.S. team in the Junior World Championships. Pointing out that this elite team would

leave the United States during our final exams, Father Beauchamp asked for the board's recommendation regarding participation. The consensus of the board was to approve, acknowledging the final authority rested with the dean. Father Beauchamp asked Dr. Halischak to follow up on the necessary communications.

6. Mr. Wadsworth presented a draft of a policy statement on the fifth year of eligibility. The board reviewed the draft line by line, making suggestions.

7. Mr. Wadsworth explained to the board the complicated bowl picture as it now stands. He outlined possible options that the University may have based upon different outcomes of football games to be played the first weekend in December. He promised more information as it becomes available.

8. Father Beauchamp distributed copies of a letter from Professor Howard regarding the admission of marginal students and copies of a report from Mr. Wadsworth regarding the travel of academically at-risk student-athletes. Both will be discussed at future meetings.

There being no further business, the meeting was adjourned at 6:16 p.m.

Awards Received and Proposals Submitted

In the period January 1, 1998, through January 31, 1998

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	9	4,006,364	13	744,631	22	4,750,995
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	1	10,000	0	0	1	10,000
Service Programs	0	0	3	3,480	3	3,480
Other Programs	1	<u>18,840</u>	4	<u>117,055</u>	5	<u>135,895</u>
Total	11	4,035,204	20	865,166	31	4,900,370

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	12	731,848	39	10,515,041	51	11,246,889
Facilities and Equipment	0	0	1	300,914	1	300,914
Instructional Programs	1	100,935	0	0	1	100,935
Service Programs	0	0	0	0	0	0
Other Programs	0	0	1	<u>600</u>	1	<u>600</u>
Total	13	832,783	41	10,816,555	54	11,649,338

Awards Received

In the period January 1, 1998, through January 31, 1998

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Thomas J. Mueller

Propeller Blade Response to Inflow Distortion
Department of the Navy
\$84,493 12 months

John E. Renaud and Stephen M. Batill, et al.

Multidisciplinary Design Research Extension
National Aeronautics and Space Administration
\$10,000 10 months

Michael M. Stanisic

Animation of a Dextrous Manipulator
National Science Foundation
\$5,000 36 months

Flint O. Thomas and Robert C. Nelson

Wake Development and Structure in Adverse Pressure Gradient
National Aeronautics and Space Administration
\$50,371 12 months

Biological Sciences

Nora J. Besansky

Assessment of Gene Flow between Malaria Vectors
World Health Organization
\$34,800 12 months

Charles F. Kulpa Jr.

TNT Biodegradation
Argonne National Laboratory
\$17,000 23 months
Microbial Desulfurization of Petroleum
Energy Biosystems Corporation
\$12,500 2 months
Application of Molecular Tools to ID Microbial Activities
Chevron Oil Company
\$67,000 12 months

Chemical Engineering

Joan F. Brennecke

Ionic and Free Radical Reactions in Supercritical Water
Department of the Army
\$122,138 36 months

Chemistry and Biochemistry

Richard E. Taylor

Practical, Iterative, Synthetic Methodology
National Science Foundation
\$96,369 12 months

Olaf G. Wiest

Pericyclic Reactions of Radical Ions
National Science Foundation
\$99,500 12 months

Civil Engineering and Geological Sciences

Ahsan Kareem

Engineering for Hazard Mitigation
National Science Foundation
\$25,320 48 months

Ahsan Kareem and Jeffrey C. Kantor

Dynamic Wind Simulator
Clemson University
\$77,335 37 months

Electrical Engineering

Douglas C. Hall

Model 2010 Upgrade
Meticon Corporation
\$730 36 months
Type M330AH Thermal Mass Flow Controller
MKS
\$5,500 18 months

Graduate School

Peter Diffley

Fellowship for Kimberly Anne Wallace
Dolores Zohrab Liebmann Fund
\$18,840 12 months

Lobund Laboratory

Morris Pollard

Effects of Soy Diets on Experimental Prostate Cancer
United Soybean Board
\$138,000 20 months

Physics

James T. Cushing and Alisa N. Ellingson
Can Quantum Nonlocality and Relativity Be Reconciled?
National Science Foundation
\$6,099 12 months

Jonathan R. Sapirstein
Calculations of Higher Order QED Effects in Helium
National Institute of Standards and Technology
\$50,000 12 months

Peter E. Schiffer
Geometrically Frustrated Magnets as Model Systems
Department of the Army
\$100,000 12 months
Experimental Studies of Wet Granular Media
American Chemical Society
\$20,000 32 months

Radiation Laboratory

James L. Merz and **John J. Bentley Jr.**, et al.
Effects of Radiation on Condensed Matter
Department of Energy
\$3,710,000 36 months

AWARDS FOR INSTRUCTIONAL PROGRAMS

Chemical Engineering

Joan F. Brennecke
REU Supplement to EEC 97-00537-CRCD
National Science Foundation
\$10,000 36 months

AWARDS FOR SERVICE PROGRAMS

Center for Continuing Formation in Ministry

Rev. Eugene F. Lauer
Center for Continuing Formation in Ministry
Various Others
\$255 1 month

Center for Pastoral Liturgy

Sr. Eleanor Bernstein, C.S.J.
Center for Pastoral Liturgy
Various Others
\$2,495 1 month
Center for Pastoral Liturgy
Various Others
\$730 1 month

AWARDS FOR OTHER PROGRAMS

Aerospace and Mechanical Engineering

John W. Lucey
Industrial Assessment Center Program
Rutgers University
\$74,375 12 months

Graduate School

Peter Diffley
Fellowship for Elizabeth Groppe-Sniegocki
Dolores Zohrab Liebmann Fund
\$18,840 12 months
Fellowship for Michael Waddell
Dolores Zohrab Liebmann Fund
\$18,840 12 months
Fellowship for Rachel Koopmans
Dolores Zohrab Liebmann Fund
\$18,840 12 months

Institute for International Peace Studies

Carolyn R. Nordstrom
Conference on Cultures of Violence, Cultures of Peace
Valparaiso University
\$5,000 7 months

Proposals Received

In the period January 1, 1998, through January 31, 1998

PROPOSALS FOR RESEARCH

Aerospace and Mechanical Engineering

James J. Mason and Samuel Paolucci, et al.

Modeling Ignition in Solids

Lawrence Livermore National Laboratory

\$504,562 36 months

Flint O. Thomas and Corey Bourassa

Relaminarization: A Two Phase Approach

National Aeronautics and Space Administration

\$20,600 12 months

Architecture

Cara Carroccia

The Woman's Building

Graham Foundation

\$4,700 4 months

Biological Sciences

Nora J. Besansky

Species Boundaries in the Anopheles gambiae Complex

National Institutes of Health

\$196,808 12 months

Scott D. Bridgham

Research Experience for Undergraduates Supplement

National Science Foundation

\$10,000 3 months

Frank H. Collins

Malaria Reagents Repository

Bratton Biotech Inc.

\$1,886,222 84 months

John G. Duman

Structure/Function Studies of Antifreeze Protein

National Science Foundation

\$412,449 36 months

Jeffrey L. Feder

REU Supplement to CAREER Grant

National Science Foundation

\$3,750 3 months

Douglas J. Fishkind

Structural Dynamics of Actin-Myosin Function in

Cytokinesis

National Science Foundation

\$443,447 36 months

Frederick W. Goetz Jr.

Differentially Regulated Perch mRNA

National Science Foundation

\$402,601 36 months

David R. Hyde and Vecheslav A. Elagin, et al.

Mechanisms of Retinal Degeneration

National Institutes of Health

\$223,215 12 months

David R. Hyde and Thomas S. Vihtelic

Neuronal Regeneration in the Zebrafish Retina

National Science Foundation

\$511,729 36 months

Vicki J. Martin

Primitive Neural Networks

National Science Foundation

\$296,645 36 months

Karamjit S. Rai

Experimental Parasitology and Vector Biology

National Institutes of Health

\$93,636 12 months

Center for Environmental Science and Technology

Clive R. Neal and Peter C. Burns, et al.

Platinum Group Element Mobility

National Science Foundation

\$511,245 24 months

Civil Engineering and Geological Sciences

Ashan Kareem

Dynamic Response of Structures

National Science Foundation

\$12,250 12 months

Yahya C. Kurama

Seismic Design of Unbonded Post-Tensioned Coupled Walls

National Science Foundation

\$76,136 30 months

Clive R. Neal

Origins of the Ontong Java Plateau, Part 2

National Science Foundation

\$15,268 12 months

Billie F. Spencer Jr. and Michael K. Sain

Magnetorheological Damping: REU Supplement 1998

National Science Foundation

\$12,250 12 months

Chemical Engineering

Joan F. Brennecke and Edward J. Maginn

1998 Midwest Thermodynamics Conference

National Science Foundation

\$4,936 12 months

Paul J. McGinn

Combinatorial Synthesis by Ink Jet Dispensing

National Science Foundation

\$100,346 12 months

Arvind Varma

Kinetics of Rapid High Temperature Reactions

American Chemical Society

\$90,000 38 months

Mechanistic Studies in Combustion Synthesis of Materials

National Aeronautics and Space Administration

\$437,458 48 months

Joint U.S.-Japan Research: Combustion Synthesis of Materials

National Aeronautics and Space Administration

\$455,742 48 months

Eduardo E. Wolf

Cross Flow Reactor for the Partial Oxidation of Alkanes

National Science Foundation

\$302,720 36 months

Chemistry and Biochemistry**Francis J. Castellino**

Structure-Function Relationships of the Conantokins

National Institutes of Health

\$280,603 12 months

Paul W. Huber

Protein Binding Domains on Eukaryotic 5S rRNA and rDNA

National Institutes of Health

\$216,332 12 months

Marvin J. Miller

Siderophores, Analogs and Bioconjugates

National Institutes of Health

\$288,297 12 months

Richard E. Taylor

Synthetic Methods for Diversity Generation

Procter and Gamble

\$150,000 36 months

Computer Science and Engineering**Hsing-Mean Sha**

Communication Reduction Techniques and IP Video

Phone

AT&T

\$44,036 14 months

East Asian Languages and Literatures**Liangyan Ge**

The Shuihu Zhuan and the Rise of Chinese Vernacular Fiction

American Council of Learned Societies

\$20,000 12 months

Economics**Patrick L. Mason and Felicia B. LeClere, et al.**

The Impact of Nurse Staffing on the Quality of Patient Care

National Science Foundation

\$12,600 24 months

Electrical Engineering**Patrick J. Fay**

High Power InGaP PHEMT SBIR PHASE 1

Kopin Corporation

\$16,500 9 months

James L. Merz

Semiconductor Spontaneous Ordering

North Atlantic Treaty Organization

\$319,237 36 months

Government and International Studies**Michael J. Coppedge and David Altman**

Politics of Coalition Formation and Survival

National Science Foundation

\$8,761 6 months

Gilbert D. Loescher

Office of the United Nations High Commissioner for Refugees

U.S. Institute of Peace

\$73,400 10 months

The United Nations High Commissioner for Refugees

J.D. and C.T. MacArthur Foundation

\$69,693 11 months

Office of the United Nations High Commissioner for Refugees

The Woodrow Wilson Center

\$62,000 10 months

Office of the United Nations High Commissioner for Refugees

J.S. Guggenheim Memorial Foundation

\$30,000 12 months

Philosophy**Stephen H. Watson**

Thought Experiment in Radiobiology

National Science Foundation

\$54,916 12 months

Physics**Howard A. Blackstead**

Development of a Pulsed Laser Deposition System

National Science Foundation

\$1,082,839 36 months

Neal M. Cason and John M. LoSecco, et al.

Equipment for Brookhaven Experiment 852

Brookhaven National Laboratory

\$19,066 12 months

James A. Glazier

Supplement for NYI Award

National Science Foundation

\$23,758 12 months

A. Eugene Livingston

Highly-Charged Ions in an Electron Beam Ion Trap

National Institute of Standards and Technology

\$24,000 5 months

Grant J. Mathews

Domain Decomposition Multigrid Techniques

Lawrence Livermore National Laboratory

\$327,617 36 months

Terrence W. Rettig

REU Site Program in Physics at the University of Notre Dame

National Science Foundation

\$13,241 12 months

Peter E. Schiffer and Albert-László Barabási

Exploring Wet Granular Materials

Procter and Gamble

\$150,000 36 months

Psychology**Steven M. Boker**

Dynamic Postural Equilibrium

National Science Foundation

\$333,885 36 months

Bradley S. Gibson

Surprise and Attentional Control in Vision

National Institutes of Health

\$35,282 12 months

Anita E. Kelly

Health Effects of Secrecy

National Institutes of Health

\$81,690 12 months

Julianne C. Turner

Avoidance Beliefs and Behaviors in Mathematics

National Science Foundation

\$480,421 48 months

PROPOSALS FOR FACILITIES AND EQUIPMENT

Chemistry and Biochemistry**W. Robert Scheidt and Thomas L. Nowak**

Acquisition of an ESR (EPR) Spectrometer

National Science Foundation

\$300,914 36 months

PROPOSALS FOR INSTRUCTIONAL PROGRAMS

Psychology**John G. Borkowski and Thomas L. Whitman**

Research Training in Mental Retardation

National Institutes of Health

\$100,935 12 months

PROPOSALS FOR OTHER PROGRAMS

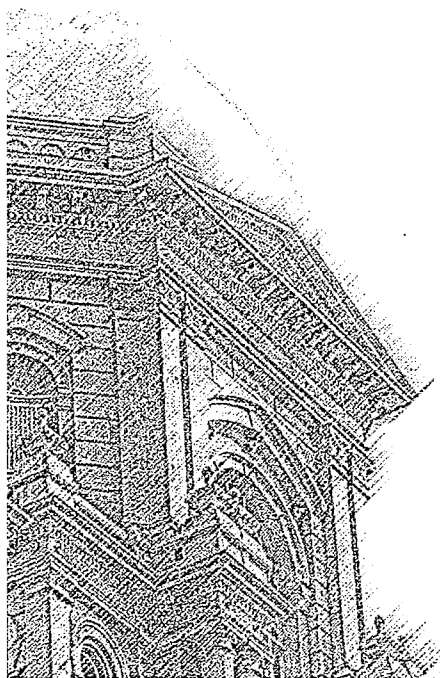
Educational Talent Search**Warren G. Outlaw and Alyssia J. Coates, et al.**

Talent Search Diva Project

Youth Service Bureau

\$600 6 months

Notre Dame Report



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