Center of Excellence for Faculty and Undergraduate Student Research Collaboration

1999-2001
Biennial Report of Scholarly Contributions

University of Wisconsin-Eau Claire
On the Cover: Jack Pladziewicz, professor of chemistry and department chair, announces his retirement from UW-Eau Claire after thirty years of service.

Professor Jack Pladziewicz received his undergraduate degree from UW-Eau Claire in 1967. After receiving his Ph.D. from Iowa State University, Pladziewicz returned to UW-Eau Claire to teach in 1973. During the ensuing years, he became a model scholar/teacher and contributed greatly to the success of the UW-Eau Claire Center of Excellence for Faculty and Undergraduate Student Research Collaboration. Pladziewicz has received more than $1 million from the National Science Foundation, Research Corporation, American Chemical Society, and Hewlett Packard Company for his research. Through these grants he engaged students in research, mentoring their growth and transition to graduate school and to employment in the field of chemistry. Professor Jack Pladziewicz is the recipient of the UW-Eau Claire Excellence in Scholarship Award, the Wisconsin CASE Professor of the Year, and the UW-Eau Claire Distinguished Alumni Award.
Center of Excellence
for Faculty and Undergraduate Student Research Collaboration

1999-2001
Biennial Report of Scholarly Contributions

Editors:

Christopher T. Lind
Assistant Vice Chancellor
Research and Sponsored Programs

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The University of Wisconsin-Eau Claire is the Center of Excellence for Faculty and Undergraduate Student Research Collaboration within the 13 institution University of Wisconsin System. The Center has existed at UW-Eau Claire since its creation by the University of Wisconsin System Board of Regents in 1988. With internal funding of over $500,000 annually, the Center encourages and supports collaborative research, scholarly, and creative activities among UW-Eau Claire faculty and undergraduates in all disciplines.

The 1999-2001 Biennial Report Scholarly Contributions documents the sustained effort of this Center to encourage and support collaborative research, scholarly, and creative activities of our faculty and undergraduate students. The size and scope of our programs make UW-Eau Claire a leader in the national trend to incorporate research into the undergraduate experience.

Key to the Center’s success is the willingness and interest of our faculty and academic staff to pursue out-of-class scholarly projects with student collaborators. At UW-Eau Claire we reward this activity with funding through Center of Excellence programs. The largest funding commitment comes from our undergraduate students through their differential tuition. But significant resources also are contributed from UW-Eau Claire funds, the University of Wisconsin-Eau Claire Foundation Inc., the UW System Undergraduate Initiative, and extramural funding sources.

In this current biennial report of scholarly contributions, we include peer reviewed, published works as well as regional and national presentations co-authored by undergraduate students with faculty and academic staff mentors. Citations include papers and presentations published during the period of July 1, 1999 through June 30, 2001.

In addition to these contributions, the Center also sponsors an annual on-campus UWEC Student Research Day. Last year 253 students and 144 faculty mentors made presentations at this event. These local presentations are not included in this volume but are published in the Eighth and Ninth Proceedings of the Annual UWEC Student Research Day. Interested individuals may request these proceedings by contacting the Office of Research and Sponsored Programs, 161 Human Sciences and Services Building, University of Wisconsin-Eau Claire, Eau Claire, WI 54702-4004 or by phone or e-mail at (715) 836-3405, orsp@uwec.edu.

Christopher T. Lind
Director
Center of Excellence for Faculty and Undergraduate Student Research Collaboration

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Center of Excellence for
Faculty and Undergraduate
Student Research Collaboration

The Center of Excellence for Faculty and Undergraduate Student Research Collaboration was established at UW-Eau Claire in 1988 by action of the Board of Regents of the University of Wisconsin System. This Center was built on a quarter century tradition of engaging students in collaborative research with faculty scholars and incorporating research into the undergraduate experience.

The goals of the Center include (1) enhancing the quality of undergraduate education by providing students with an opportunity to participate with faculty in research projects, (2) keeping the undergraduate curriculum vital and updated by incorporating the results of current research into the curriculum, (3) facilitating collaborative research among faculty and students representing diverse undergraduate programs in order to identify and address problems requiring multidisciplinary solutions, and (4) encouraging undergraduate students by way of their successful research to consider advanced studies in their disciplines.

The Center has provided students with an opportunity for "hands on" experience in research, presentation of results at the annual UWEC Student Research Day, and encouragement to present findings at meetings of professional organizations.

Faculty/undergraduate student research collaboration will continue to be a hallmark of the undergraduate degree at UW-Eau Claire and the Center of Excellence for Faculty and Undergraduate Student Research Collaboration will continue to support this faculty effort.

The Center operates four programs that provide grant support opportunities for faculty and students engaged in collaborative research. These programs include Faculty/Student Research Collaboration, Summer Research Experiences for Undergraduates, Collaborative Equipment for Laboratory Improvement, and Student/Faculty Travel for the Presentation of Research Results. In addition an Annual UWEC Student Research Day is held during the Spring Semester to disseminate the results of faculty/student research collaborations.

The Center is funded largely with student differential tuition funds allocated for collaborative research. These student funds are augmented with support from the UW-Eau Claire Foundation, Inc., the UW-Eau Claire Office of Research and Sponsored Programs, the UW System Undergraduate Initiative, and other extramural funding sources.

Excellence: Our Measure, our Motto, our Goal!
# Publications and Presentations Authored and Co-Authored by University of Wisconsin-Eau Claire Undergraduate Students

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ALLIED HEALTH PROFESSIONS


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Biology


—, with **Christy Carello**, faculty, same department. “Second Top 50 Chemicals.” Society of Integrative and Comparative Biology, Chicago, IL, 3-7 Jan. 2001.


**Chemistry**


**Gullickson, Glen,** undergraduate student, with **David Lewis**, faculty, same department. “Green Synthesis of 3,3-Diphenylpropanoic Acid Derivatives.” Great Lakes Regional Meeting, American Chemical Society, Fargo, ND—Poster Presentation. 4-6 June 2000.


COMMUNICATION DISORDERS


COMMUNICATION AND JOURNALISM


COMPUTER SCIENCE


COUNSELING SERVICES


ECONOMICS


Lor, Tua, and Elina Camane, undergraduate students, with Jan
Hansen and Wayne Carroll, faculty, same department. “New
Directions in Regional Economic Research.” Fifteenth National
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Monaco, Kristen, faculty, with Emily Williams, undergraduate
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“Modernization and Women in Brazil: Their Changing Roles in
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Willmert, Joshua, undergraduate student, with Kristen
Monaco, faculty, same department. “How Much Do Truck
Drivers Work? An Analysis Across Data Sets.” Midwest
Economics Association Annual Meeting. Chicago, IL, 31 Mar.-2

Zhang, Jinhong, undergraduate student, with Maria DaCosta,
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department. “Market-Oriented Reform and Economic Growth in
China.” Proceedings of the International Conference on
Economics at the Turn of the Century, National Chung Cheng
University, Taiwan, 20-21 Dec. 1999. Chiayi, Taiwan: National

Barden, Elizabeth, Stephanie Hora, and Laura Bauers,
undergraduate students, with Gloria Hochstein, faculty, same
department. “E-Books Panel.” Sigma Tau Delta National
Convention, Corpus Christi, TX, 14-18 Mar. 2001.

—, undergraduate student, with Gloria Hochstein, faculty, same
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in good in Bram Stocker’s Dracula.” Sigma Tau Delta National
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Busch, Tracey, undergraduate student, with Asha Sen, faculty,
same department. “Representations of Cultural Conflict,
Patriarchy, and Colonization as Viewed Through the Female
Body in Nervous Conditions.” Fourteenth National Conference
255.

Ledo-Anderl, Debbie, undergraduate student with Mary Ellen
Alea, faculty, same department. “Two Montana Families.”
Fourteenth National Conference on Undergraduate Research.
University of Montana, 2000. 5.


Geology


**history**


Human Development Center


Kinesiology and Athletics


MATHEMATICS


Miller, Heidi, undergraduate student, and Veena Chadha, faculty, same department. “x-1<=Ln(x) and Holder Inequality.” Tenth Annual Mathematics Retreat, University of Wisconsin-Eau Claire, Eau Claire, WI—Oral Presentation. 4 Apr. 2001.


MUSIC AND THEATRE ARTS


PHILOSOPHY AND RELIGIOUS STUDIES


**Physics and Astronomy**


**Politics**


PsyCHOLOGY


Henn, April, undergraduate student, with Blaine Peden, faculty, same department. “Do Opinions About Having ‘Had Sex’ Depend on Relational and Attitudinal Variables?” Midwestern Psychology Association Convention, Chicago, IL, 2-5 May 2001.


Miller, Jeffrey, undergraduate student, with Marie Crothers, faculty, same department. “The Effects of Tempo Permutations on Typing Test Measurements of Speed and Accuracy.” Midwestern Psychology Association Convention, Chicago, IL, 2-5 May 2001.


—, with Blaine Peden, faculty, same department. “Students’ Turn to Speak: Reflections on Curriculum and Other Aspects of Undergraduate Experiences.” Mid-American Conference for Teachers of Psychology. Evansville, IN, 7-9 Oct. 1999.


SOCIOLOGY AND ANTHROPOLOGY


Social Work
