EDUCATION THROUGH RESEARCH: FOSTERING NEW CONNECtIONS
2001 REPORT TO THE NSF ON COLBY COLLEGE’S AWARD FOR THE INTEGRATION OF RESEARCH AND EDUCATION

DEPARTMENTAL RESEARCH PUBLICATIONS AND PRESENTATIONS
(Student authors are underlined, Faculty names are bolded)

PUBLICATIONS

**DEPARTMENT OF BIOLOGY**


**DEPARTMENT OF CHEMISTRY**


**DEPARTMENT OF COMPUTER SCIENCE**


DEPARTMENT OF GEOLOGY


DEPARTMENT OF MATHEMATICS


DEPARTMENT OF PHYSICS AND ASTRONOMY


**PROGRAM IN SCIENCE, TECHNOLOGY, AND SOCIETY**


**PRESENTATIONS**

**DEPARTMENT OF BIOLOGY**


Janze, A. ’01. 2001. The effects of melatonin on glucose and lactate levels in the crayfish, Procambus clarkii. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


DEPARTMENT OF CHEMISTRY


Conklin, J. E. ’00 and J. T. Millard. 2000. DNA interstrand cross-linking by a diepoxy mycotoxin; Poster presented at the Colby Undergraduate Research Symposium.


Ghertner D. A. ’01, T. Bertram ’00, C. Langelier ’00, and D. W. King. 2001. Photochemical degradation of 2,4-D and atrazine in well-defined media. 221st ACS


Srivatsan, S. ’01 and J. T. Millard. 2001. Flanking sequence effects on DNA interstrand cross-linking preferences of diepoxides; Poster presented at the 221st


DEPARTMENT OF COMPUTER SCIENCE


Congdon, C. B. 2001. Experiences with small robots, from “The Use of Robots in the Undergraduate Curriculum: Experience Reports.” Panel discussion at SIGCSE, the Technical Symposium on Computer Science Education, February 23, 2001. (SIGCSE is the Association for Computing Machinery Special Interest Group in Computer Science Education; this is an international conference).


DEPARTMENT OF GEOLOGY
Ashworth, A. C., M. Gutenkunst and R. E. Nelson. 2000. The climate during the last advance of the Puget Sound Glacier (Vashon Stade, Fraser Glaciation) based on Fossil Beetles from Seattle. Geological Society of America Abstracts with programs, 32(7):A-


DEPARTMENT OF MATHEMATICS

Gouvea, F. Q. 2000. Where the slopes are. Presented at Quebec-Vermont Number Theory Seminar, University of Vermont, Burlington, VT. Presented at Millennial Conference in Number Theory, University of Illinois at Urbana-Champaign.

Gouvea, F. Q. 2001. Where the slopes are. Algebra Seminar, Boston University, Boston, MA.

Gouvea, F. Q. 2000. Fermat's last theorem, from "Diophantus to Wiles." Physics Department Colloquium, Brookhaven National Laboratory.

Gouvea, F. Q. 2000. Without numbers, with numbers, about Numbers. William M. Bullitt Lecture, University of Louisville, Louisville, KY.


DEPARTMENT OF PHYSICS AND ASTRONOMY


Clark, D. ‘01. Far-IR from the Star Formation Region G34.3+0.2. Poster presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


PROGRAM IN SCIENCE, TECHNOLOGY, AND SOCIETY


Alioto, M. A. ’01. 2001. Waves: wave power and tidal power. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Arens, S. ’01. 2001. Invaders from Spain and their impact on Native American discourses. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Carey, R. L. ’01. 2001. Destruction, damage and death: gender, race, and class as international variables-floods. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Chapman, J. T. ’01. 2001. Destruction, damage and death: gender, race, and class as international variables- drought. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Cooper, B. P. ’03. 2001. History of weather services: weather and war. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Fleming, J. R. 2000. University, Canberra. Joint Seminar: History and Philosophy of Science Department, Centre for the Study of Health and Society, Geography Department, and Environmental Studies Department, University of Melbourne, Australia.


Green, D. ’01. 2001. The legacy of Thoreau. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Harris, M. A. ’04. 2001. Acid rain: regional case studies in the United States--Texas and the Southwest. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Hoffmann, C. ’03. 2001. Environmental issues of Ecuadorian natives. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Jaspersohn, A. ’02. 2001. Eulogy for the fishermen: the destruction of the Aral Sea ecosystem, the environment, and surrounding cultures. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.
Knorr, B. '01. 2001. Historical perspectives on science and religion. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Krause, M. A. '03. 2001. Weather and health: ultraviolet radiation and skin cancer. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Laramee, J. '03. 2001. The National Parks: Yellowstone and beyond. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Marshall, P. K. '03. 2001. Waves: how waves are formed. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

McCloy, W. S. '03. 2001. History of weather services: history of hurricane forecasting and the tropical prediction center. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

McManigal, J. G. '03. 2001. Acid rain: regional case studies in the United States--California and the Pacific Coast. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Mellen, E. C. '01. 2001. The role of religion in environmental degradation. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Nalesnik, M. J. '03. 2001. History of weather services: history of severe storm warnings. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Parker, A. D. '01. 2001. Politics of climate change: the role of environmental organizations in the politics of climate change. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Paustenbach, M. D. '01. 2001. Politics of climate change: big business and the politics of climate change. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Pearce, W. '02. 2001. A history of the paper industry and its effects on the environment. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Pennypacker, C. M. '04. 2001. Weather and health: heat waves and their impacts. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Perkins, L. E. '01. 2001. Destruction, damage and death: gender, race, and class as international variables--earthquakes. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Presbrey, K. E. '03. 2001. Storms in North America: hurricanes in the Caribbean and Gulf. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Presbrey, K. '03. 2001. Air pollution under capitalist and communist regimes. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Rowen, K. K. '01. 2001. The Appalachian Trail: environmental and social effects of the Trail's construction. Presentations at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Rust, M. '01. 2001. The United Fruit Company in Central America. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.

Schnitzer, E. '02. 2001. The downfall of the fishing industry in Maine. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Tosch, J. '01. 2001. Environmental stewardship and Buddhism. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Tsiaras, G. M. '03. 2001. Acid rain: regional case studies in the United States--Florida and the Southeast. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.


Zerbonne, S. ’03. 2001. The green revolution revisited. Presentation at the Undergraduate Res. Symp., Colby College, Waterville, ME.