

## CAHRS

### Managing Human Capital in the European Union and Beyond

The Center for Advanced Human Resource Studies (CAHRS), a world-class partnership between industry and academia, is devoted to global human resource management. CAHRS hosts an international meeting every eighteen months.

U.S. Ambassador to Germany, Daniel Coats, welcomed CAHRS corporate sponsors and faculty to Berlin for the CAHRS Spring 2002 International Sponsor Meeting on Managing Human Capital in the European Union and Beyond. Coats encouraged the international audience to share ideas with each other while upholding the Berlin tradition of participating in dialogue. The diverse presentations contrasting U.S. and European approaches to human resources sparked much discussion and debate. The intellectual interaction helps generate ideas for new human resources models.



Pamela Stepp,  
CAHRS Managing Director

## CaRDI

### Community Development Toolbox Provides Help

In many communities, decision making by local officials and educators is constrained by limited understanding of the problems, by their need for information, and by lack of knowledge about potential solutions for meeting community goals. Often, the breadth of problems eclipses the training, knowledge, or experience of decision makers. Rural isolation can exacerbate the difficulties.

The Community and Economic Development Toolbox, a new website developed by faculty and researchers at CaRDI and Pennsylvania State University's Cooperative Extension division, provides users with ways to implement sound municipal development decisions. Still growing, the site (<http://www.cdtoolbox.org>) provides 40 tools for community planning, development issues, government policies, benchmarking, and economic and agricultural development. The Toolbox is funded by a federal Smith-Lever grant from the U.S. Department of Agriculture and Cornell Cooperative Extension.



## CCMR

### Simmons Researchers Visit Cornell

Faculty from Simmons College, a women's college in Boston, have been collaborating with CCMR researchers as part of a special National Science Foundation grant to increase the number of women in materials science. During July 2002, CCMR hosted three Simmons faculty members at Cornell. During their visit, Velda Goldberg (Physics), Len Soltzberg (Chemistry), and Michael Kaplan, (Chemistry and Physics), used the CCMR Scanning Electron Microscope to examine samples made at Simmons. Kit Umbach (Materials Science and Engineering) also provided a hands-on workshop on Atomic Force Microscopy. Simmons faculty worked in the research labs of their CCMR collaborators George Malliaras, Materials Science and Engineering, and Paulette Clancy, Chemical and Biomolecular Engineering. Tours of key research facilities and curriculum discussions with Cornell faculty capped off this very successful summer gathering.



Professors Soltzberg, Kaplan, and Goldberg shown in the CCMR Electron and Optical Microscopy Facility with facility manager John Hunt.

## CNF

### Facility Hosts 2002 NNUN REU Program

Cornell Nanofabrication Facility hosted the convocation of the National Nanofabrication Users Network's summer undergraduate research program. This convocation brings together students who have performed research, under National Science Foundation support, at the five university laboratories that are part of the network. Students present and discuss their research from the wide range of subjects that are the focus of their research in nanotechnology. Students from junior colleges, such as Corning, and universities from across the country, such as University of Puerto Rico, and majors from biomedical engineering to physics participated this year.

The 2002 NNUN REU Research Accomplishments and information on the 2003 NNUN REU Program are available at <http://www.nnun.org/Reu/REU.html>.



NNUN REU participants

## CTC

### Theory Center Joins Forces with Dell, Intel, and Microsoft

Cornell Theory Center (CTC) entered into an agreement with Dell, Intel, and Microsoft to develop and deliver CTC High-Performance Solutions, a suite of industry standards-based high-performance computing (HPC) solutions and services for business, government, and academic clients. The agreement provides \$60 million worth of resources over the next four years to aid in solutions development.

"Establishment of CTC High-Performance Solutions comes at a time when all sectors of the economy face increasing competition, pressure on margins, and the need to demonstrate strong and quick returns on investment," said Thomas F. Coleman, CTC director and Cornell computer scientist. "With our expanded relationships and combined strengths, we can show companies, government agencies, and academic institutions how to expand their technical computing environment, while reducing their overall IT budget."

## LEPP

### HEPAP Meets at Cornell

The Laboratory of Elementary-Particle Physics hosted the summer meeting of HEPAP, the High Energy Physics Advisory Panel on August 5 and 6, 2002. HEPAP reports to both the Department of Energy (DOE) and the National Science Foundation (NSF), giving program and priority advice about particle physics programs. Among the participants were James Decker, Deputy Director of the Office of Science of the DOE, and John Hunt, Acting Assistant Director for Mathematical and Physical Sciences at the NSF.

The meeting afforded LEPP the opportunity to showcase programs in particle physics, x-ray science, and accelerator physics and technology. Special tours of the LEPP and CHESS facilities were conducted. Panel members were very much impressed with the effectiveness of Cornell's programs.



## NBTC

### Student Interns Explore Microfluidics

Six high school students from across the country participated in the second year of the Nanobiotechnology Center High School Internship Program. In five short weeks, students learned the basics of microfabrication and applied their skills to a hands-on design project at the center's Kimball Hall facility. In teams of three, students designed and fabricated microchannels and valves through which they flowed bacteria that they genetically transformed to express Green Fluorescent Protein, a biomolecule that glows. Technology specifically developed by the center allows these students to carry out their efforts independently and improve their designs in an iterative fashion. The students' research results are available at: <http://www.nbtc.cornell.edu/education/HS>.



High school students creating microfluidic channels on a silicon wafer

## Technology Showcase

### Cornell Hosts Research Technology Showcase

On August 6, 2002, five research centers and the College of Engineering presented a technology showcase for representatives from the local industrial community. The showcase was designed not only to highlight the latest research technology but also to open up lines of communication and contact between Cornell's scientific resources and local industrial groups. In addition to the College of Engineering, host centers included the Centers for Material Research, Nanobiotechnology, Advanced Technology in Biotechnology, Nanoscale Systems in Information Technology, and the Cornell Nanofabrication Facility. The thirty-nine attendees included representatives from 22 local companies and representatives from government, education, economic development, and venture capital management. A featured speaker was Rep. Sherwood Boehlert, chairman of the House Science Committee.



(l. to r.) Steve Kresovich, Biotech Institute; W. Kent Fuchs, Dean, College of Engineering; and Rep. Sherwood Boehlert at Technology Showcase

Nicola Kountoupes/CU



CTC Directors (l. to r.) Linda Callahan, Executive Director; Thomas F. Coleman, Director; David Lifka, Associate Director, Chief Technical Officer; Paul Redfern, Associate Director



### For more information:

contact individual faculty members using the Cornell Electronic Directory at <http://cuinfo.cornell.edu> or (607) 255-2000; or find directory information for specific centers at <http://www.osp.cornell.edu/vpr/CentersIndex.html>