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FOCUS

FOCUS — in seven issues a year — is a publication of the faculty and staff of Carnegie Mellon University.
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Who's who of who's away

Omer Akin, professor in the Architecture Department, will be on sabbatical during fall 2004 in order to complete a manuscript entitled *Ethical Decision Making – Theory and Cases for the Building Industry*. This work began almost a decade ago in his course called “Ethics and Decision Making in Architecture” and will continue with field research in the United States, England, Australia and Turkey.

Jean Alexander, head of reference in Hunt Library, will be on leave in March through May 2005 to write a book chapter on the management of reference serials and databases in Cambridge, England.

Natalie Baker-Shirer, associate professor in the Drama Departments, is taking a sabbatical in spring 2005 to edit and consolidate her workbooks and to re-record the accompanying CDs used in each of her four courses. Additionally, a workbook for international productions requiring Standard American English will be developed.

Patricia Bellan-Gillen, the Dorothy L. Stubnitz Professor of Art, is taking a semester leave of absence to concentrate on the development of her studio work. The paintings, drawings and prints created at this time will be featured in a solo exhibition at Butters Gallery in Portland, OR.

Preston Covey, professor in the Department of Philosophy will be on leave in the fall 2004 semester in order to complete his book, *Gun Control: For and Against* as part of the Rowman and Littlefield series, *Point/Counterpoint: Philosophers Debate Contemporary Issues*. He will also be writing three derivative articles for publication based on research for this book and the related research for his courses. The articles are to be entitled: “Ban All Guns or None: ‘Sporting Purpose’ Firearms Have Neither Special Merit nor Special Immunity,” “Renew the Assault Weapon Ban? Why not? What’s at Stake?” and “What’s a Pre-emptive Strike: The Law and Ethics of Self Defense Redux: The Case of Battered Women Compared with George W’s War in Iraq.”

Michael M. Domach, professor in the Department of Engineering, will pursue a sabbatical at the Jackson Laboratory and the University of Maryland’s Bioengineer Program to pursue advanced study in genomics and to scope out the need for publishing a primer on Biomolecular Engineering Fundamentals.

William Eddy, professor in the Department of Statistics will be on leave for the 2005 calendar year. He will spend the time in the Department of Neurological Surgery at the University of Pittsburgh. He will study magnetoencephalography, a tool used for presurgical planning in patients with epilepsy or brain tumors.

Charles Etensohn, professor in the Mellon College of Science, will be on leave during the Spring 2005 semester to continue studies on molecular mechanisms of early animal development, including gene networks, signaling pathways, morphogenesis and the evolution of developmental programs. The work will be carried out at

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Tough question



Photo: Brian Connelly

During his town hall meeting Sept. 28 in the University Center gymnasium, vice presidential candidate for the Democratic Party John Edwards fielded questions on subjects from the war in Iraq to homeland security, jobs and healthcare. The questioner above congratulated the candidate and then offered a solution to the ongoing instability in Iraq — put Saddam Hussein back in power. Of course, he insisted that would only be after Saddam had atoned for his sins by wearing sackcloth and ashes and crawling before the Iraqi people. Edwards thanked the man for his comments, but said he disagreed strongly with his point of view.

Survey of satisfaction finds lack of collegiality, mentoring

Measuring faculty happiness

How happy are faculty at Carnegie Mellon? How committed are they to remaining at the university? With the help of a grant from The Alcoa Foundation, the Eberly Center for Teaching Excellence designed and conducted a research study addressing these questions. The intention was to better understand the sources of faculty satisfaction and dissatisfaction at CMU, as well as the reasons individuals decide to remain at or leave the university. To this end, we conducted a matched cohort study from the fall of 2002 to the spring of 2003. We chose to conduct extended interviews, instead of a survey, because we wanted detailed, context-rich data to clarify the subtleties and complexities of faculty members’ experiences (Lecompte and Preissle, 2003; Maxwell, 1996; Merriam and Associates, 2002). We interviewed 123 faculty members, half of whom had left the institution between 1991 and 2000 and half of whom had stayed. We initially sent out 131 letters of invitation to former faculty, followed by a phone call or e-mail message, and received a very positive response: 95 percent of the first 77 former faculty we

contacted (and 89 percent of the current faculty we contacted) agreed to be interviewed, although we limited the total number due to time constraints. Those faculty who stayed were matched with faculty who left by year of appointment and department and, when possible, by gender and race (although this was not always possible in small departments or for years with fewer new hires).

Respondents were asked to describe their experience at Carnegie Mellon and any significant factors or critical incidents that had an impact on their experience. They were encouraged to tell their stories in their own way, so as to illuminate the events and issues that were most relevant to them. The data obtained were useful along two dimensions. First, each narrative revealed the chronology and complex interaction of events in a faculty member’s personal and professional life, as well as how faculty interpreted these events and made decisions. These narratives also served to clarify the particularities of issues relevant to faculty members; we were able to see, for example, exactly what various faculty members per-

ceived to be fair or unfair behavior on the part of department heads, what sorts of mentoring had proven useful to them in specific circumstances, etc. Second, each interview could be coded to facilitate comparison across interviews and thus identify patterns that spanned departments and years and related to features of institutional organization and culture. Like quantitative survey data, this approach to coding allows for broad comparisons, but has the advantage that the coding categories emerge from the data themselves and do not impose the expectations or cognitive categories of the researchers.

Interestingly — and contrary to expectations — there was very little difference between former faculty and current faculty in terms of sources of satisfaction and dissatisfaction. In other words, it was *not* the case that dissatisfied faculty left the university while satisfied faculty stayed. In fact, in regard to some issues, levels of dissatisfaction were higher among current than among former faculty. In both these groups, four

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Measuring happiness

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central issues emerged: collegiality, leadership, mentoring and reappointment, promotion and tenure (RPT). Faculty members conveyed both positive and negative accounts of these aspects of their professional lives. Where the accounts were positive, the data helped to clarify features of university life that enhance faculty satisfaction (for example, what collegiality, effective leadership and positive mentoring involve, and what happens when the RPT process works as it should). However, while we took careful note of positive aspects of faculty members' experiences, our primary focus was on sources of dissatisfaction in an attempt to understand why we lose colleagues we hoped to retain, and to address issues that negatively affect current faculty.

The issue most frequently mentioned by faculty in relation to job dissatisfaction was *lack of collegiality*. These were some, among many, of the features of departmental life which faculty described as negatively affecting collegiality:

- Incivility within departments: i.e., "factionalism," "balkanization," "back-stabbing," etc., sometimes involving struggles over limited resources (e.g., funding, graduate students, lab space) and conflicts between faculty in traditional and emerging fields;
- Lack of intellectual community: i.e., little exchange of ideas among colleagues, and a lack of interest in one another's work or in collaboration; and
- Preoccupied or disinterested senior faculty: i.e., senior faculty who are too busy to provide advice, feedback or recognition to junior colleagues, or are simply not interested in their work.

Although we had expected that departmental politics would negatively affect faculty satisfaction, we did not anticipate the subtler erosion of faculty morale that occurred when senior colleagues lacked the time, energy or will to notice and discuss their colleagues' work, to collaborate on projects or simply to socialize. By the same token, a number of senior faculty members who stayed described withdrawing from collegial relations because of disillusioning negative experiences of their own. The sources of senior faculty disengagement along with their impact on junior faculty were thus striking features of university life that emerged in this research.

A second issue that significantly contributed to faculty dissatisfaction was *ineffective leadership*. A unique feature of Carnegie Mellon is its highly decentralized administrative structure, which concentrates decision-making power in the hands of department heads. The considerable influence of department heads was obvious in faculty narratives, which were often organized chronologically according to department head. For example, "I was happy under the previous head for the following reasons, but when the current head came in, everything changed." The centrality of department heads in almost every narrative pointed to the significant responsibility faculty assigned to

The issue most frequently mentioned by faculty in relation to job dissatisfaction was *lack of collegiality* — incivility within departments, lack of intellectual community, and preoccupied or disinterested senior faculty: i.e., senior faculty who are too busy to provide advice, feedback or recognition to junior colleagues or are simply not interested in their work.

departmental leadership for creating a particular environment, positive or negative. While a number of faculty members praised their department heads for fostering a healthy departmental atmosphere, a large number also complained about ineffective departmental leadership, pointing to the department head's

- Inability to manage conflict: e.g., failure to control factionalism, to unify the department, or to settle disputes effectively;
- Tendency to play favorites: e.g., a perceived pattern of distributing assignments and departmental resources unfairly, etc.; and
- Failure to communicate effectively: e.g., failure to provide junior faculty with meaningful and timely feedback and to communicate expectations clearly.

The third issue to emerge was a perceived *lack of appropriate and meaningful mentoring*. It became clear from interviews with faculty who had received effective mentoring, as well as faculty who had not, that junior faculty benefited tremendously from having strong mentoring relationships. Our research indicated that a significant source of faculty dissatisfaction was the sense that necessary help and advice were not available at key points in the professional trajectory. Faculty noted, moreover, that a diverse range of mentoring was necessary: they needed advice not only in intellectual and professional matters, but also help in navigating departmental politics and balancing the demands of work and family. The following were identified as areas where mentoring had been or would have been helpful:

- Guidance on different aspects of work: e.g., feedback on proposals, papers, courses, etc.;
- Help in setting priorities: e.g., advice on where to put time and energy (committee work, outreach, establishing professional connections, teaching, etc.); help in determining when to say no; and
- Help in navigating departmental politics: e.g., assistance in identifying and negotiating sensitive political issues within the depart-

ment; advice on how to deal with factionalism, etc.

Finally, faculty interviews revealed the perception by many faculty of a *flawed reappointment, promotion and tenure (RPT) process*. Interestingly, RPT was identified as problematic not only by former faculty (which one might expect) but by an even greater number of current *tenured* faculty. In fact, a full 50 percent of current tenured faculty interviewed lacked faith in the integrity of the RPT process, compared to only 28 percent of former faculty. Faculty described the following sorts of flaws with the RPT process:

- Lack of feedback on progress: e.g., candidates are not told about shortcomings in their work until it is too late; in some cases the candidate gets no indication that anything is wrong until a negative promotion decision has been reached, whereupon s/he feels blindsided;
- Poorly defined or inconsistently applied promotion criteria: e.g., it is unclear which aspect of a candidate's work (research, teaching, service) will "count" in promotion decisions, or criteria are applied so inconsistently that decisions appear based on politics, not merit; and
- Overly "opaque" RPT processes: e.g., candidates cannot defend themselves from misinformation and lack of due process because RPT decisions are made in secret; furthermore, because RPT decisions are not discussed openly, the outcomes can seem capricious and political.

After collegiality, leadership, mentoring and RPT, three other issues emerged as important, if slightly less so. Salary was one. About one third of former faculty interviewed mentioned that they were receiving higher salaries in their current jobs. However, none of them claimed to have left CMU *because* of low salary, and most respondents who mentioned salary did so at the end of the interview, almost as an afterthought (e.g. "So I ultimately left for X, where, by the way, my salary is 25 percent more"). We concluded that, while salary level was clearly important

to faculty, it generally acted as a catalyst in faculty decisions to leave CMU in combination with other, more powerful sources of satisfaction and dissatisfaction. A second important issue was faculty perceptions of Pittsburgh and the surrounding region. Again, although former faculty more often spoke disparagingly about Pittsburgh than current faculty, they rarely attributed their decision to leave CMU to dissatisfaction with Pittsburgh. The exception to this was faculty who reported that their partner's ability or inability to find work in Pittsburgh was highly influential in their decision-making. Finally, both current and former faculty members were equally likely to identify CMU's interdisciplinary focus as a source of satisfaction. Former faculty, however, were just as likely to be critical of the way interdisciplinarity is applied, reporting that the university does not adequately support interdisciplinary work and that there are no clear criteria for evaluating its merit.

What, then, has been done with the information gained in this study? The results have been presented to deans and department heads, as well as to the faculty of any department that has requested the information. Furthermore, with the help of a local playwright, the interview data was used to create a set of scenarios — fictional, yet based on the experiences of real CMU faculty and reflecting common issues and dilemmas revealed in this study. These have been used as the basis of a series of discussions among groups of junior and senior faculty in various departments, an ongoing project that we will describe in greater detail in a later issue of FOCUS. The results have also influenced the monthly department head series; this fall the focus of the series is conflict management, an issue frequently discussed in the interviews. Finally, in an effort to obtain broader information on faculty satisfaction and dissatisfaction, as well as to generate more department-specific information without jeopardizing the anonymity of individuals, we have administered a survey to the entire CMU faculty in the spring of 2004. This survey has generated a surprisingly high (72 percent) response rate and promises to reveal more insights into the faculty experience at Carnegie Mellon. Those results will also be reported in a future issue of FOCUS.

SUSAN AMBROSE AND MARIE NORMAN

FOCUS
welcomes letters.
E-mail focus-
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Letters

Dear FOCUS:

A small thing, but in the Summer issue of FOCUS, Reiko Goto is pointing to a common (and native) sumac plant on page 8, as opposed to the equally common but not native Japanese knotweed.

DOUG BLAIR
Computing Services

To the FOCUS editors:

I would like to vote my disagreement with the recent review of Cafe Asia in Vol. 33 of FOCUS. While I don't consider myself an expert on Asian food, Cafe Asia certainly deserves better than OK. First of all, it is not a "Thai place" at all. In fact, the owner/proprietor is Vietnamese and the chef has 10

years of experience preparing Japanese cuisine. If the menu also includes several Thai dishes, that only proves the breadth of talent of the staff. The owner occasionally ventures back to the Orient to learn the skills of his trade from experienced restaurateurs and ensure the authenticity of his offerings. I highly recommend that readers give Cafe Asia a try for themselves. The Vietnamese B'n noodles with BBQ Pork makes for a light but filling lunch, while the tempura fried coconut ice cream is a truly divine dessert. I've never been disappointed.

PETER CENTGRAF
Human-Computer Interaction Institute

Hello FOCUS:

There is a mistake in the article entitled "The Food and Wine Collective on Negativity" in the most recent issue of FOCUS. Regina Margherita Pizzeria is located on Butler Street, not Bennett Street, in Lawrenceville. I'm a Lawrenceville resident so I am especially interested in seeing the good word get out about the great places in my neighborhood. I hope you will be able to print a correction.

By the way, in case you missed it, there is a wonderful cafe, Cocoa Cafe, in the same block on Butler as Regina Margherita. Cocoa serves breakfast and lunch only, no dinner, and the food is awesome!

GINNY DELANEY
Student Affairs

FOCUS — in seven issues a year — is a publication of the faculty and staff of Carnegie Mellon University. Many of the articles in FOCUS express the opinions of individual members of the Carnegie Mellon community; unless so indicated, they should not be construed as reflecting university policy. In the spirit of the fairness doctrine, FOCUS seeks a variety of opinions.

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Pipe in a new year

John Gasper, a Ph.D. student in SDS, has been piping at Carnegie Mellon since he was an undergraduate. On a warm fall Saturday afternoon, he tuned up behind the Old Student Union, where the pipe band has its practice space. The pipers have found that the high walls of Purnell Center are great for bouncing notes across campus. When "Scotland the Brave" is echoing through the hollow over to Wean Hollow, new and old students always know, rankings aside, that they are not at CalTech or MIT. Photo: Brian Connelly



Now, more than ever, is the time to build links in the Middle East

Qatar and Pittsburgh: a transformational enterprise

This article by President Jared Cohon and Qatar campus Dean Charles Thorpe appeared in the Sunday Sept. 12 Pittsburgh Post-Gazette. It is reprinted with permission.

Carnegie Mellon University has taken the unprecedented step of opening a true branch campus in the Middle East, in the country of Qatar.

This initiative catches some of our friends by surprise. The media reports coming from the region focus on the trouble spots: chaos in Iraq, violence in Saudi Arabia, travel warnings in Bahrain and conflicts in Israel. It is easy to forget that there are other parts of the Middle East that are stable, safe, forward-looking and eager to bring peace and progress to the region.

We are especially fortunate to be partnering with Qatar. We welcomed our first undergraduate class of 44 students, mainly from Qatar and surrounding Arab nations, on Aug. 29 and look forward to their graduation in the spring of 2008. The class is a mix of business (53 percent) and computer science students (47 percent) — 73 percent of the total population of students is female.

In Qatar, cultural bridges are being built and the exchange of goods and ideas, the natural pursuit of all people, takes place on a regular basis.

This exchange has always led to intellectual, social, political and economic progress in all cultures, not just the West's.

Carnegie Mellon has been presented with an extraordinary opportunity to build one of

these partnerships and become part of the fabric of Middle Eastern culture at a critical moment in the region's history.

This initiative was launched at the request of the Qatar Foundation For Education, Science and Community Development, a non-profit organization founded in 1995 by the Emir of Qatar, His Highness Sheikh Hamad Bin Khalifa Al-Thani, to support development of quality human resources through centers of excellence in education, research and technology.

The Emir and his wife, Her Highness Sheikha Mozah Bint Nasser Al Missned, chair of the Qatar Foundation, both strongly support higher education. In a June 2003 address to UNESCO, Sheikha Mozah said, "not only is education a pillar of democracy, but democracy is a pillar of education. The educated citizen in a democratic society is a participant, not a spectator. I believe institutes of higher education ought to be havens of innovative thought that propel society toward change, diversity and adaptation."

The Qatari vision of education matches our own: education as a primary means for both economic and human development around the world. Qatar's leaders sought Carnegie Mellon's participation because of our expertise in the use of information technology (IT) education to advance sustainable development and the human condition worldwide. We plan not only to meet their expectations, but surpass them.

In seeking productive engagement between

the Western world and the Islamic-Arab world, higher education is a natural place to start. With its strong cultural component, higher education can foster understanding among different cultures as it crosses international borders.

Part of Carnegie Mellon's mission is to provide students around the globe with knowledge and preparedness for a changing world. Qatar joins Greece, Korea, South Africa, England, India, Singapore and Silicon Valley among the diverse locations in which we currently offer (graduate) academic programs.

The Qatar partnership is unique and makes Carnegie Mellon a truly international university. Established from the ground up as an exchange enterprise, it's our first residential undergraduate campus outside of Pittsburgh. Students in Doha will earn the same degrees in business and computer science as their Oakland counterparts.

Nor is this endeavor a one-way street: We intend for our Pittsburgh students to learn from the Middle East as well. Imagine the difference in an international business class, for example. Instead of telling the students about calendar differences (which days are really the weekend?) and time zone differences (seven or eight hours, depending on daylight savings time) and cultural differences (how quickly do you move from polite chat to real business?), our Pittsburgh students will experience those effects firsthand in project teams with their Qatari classmates.

There are strong parallels between Doha

today and Pittsburgh 100 years ago, when Carnegie Mellon was setting up its current campus in Oakland: both rapidly growing cities, with large immigrant populations and richly diverse cultures (80 percent of Qatar residents are new immigrants); both fueled by new sources of wealth (natural gas extraction and processing is the Qatari answer to steel); and both with an appreciation for the importance of education and a commitment to investing in improvements in teaching and research.

And, in some ways, Doha is also a lot like today's Pittsburgh. We Pittsburghers have been warmly welcomed into Qatar, and have felt at home as we have explored: the streets curve and twist and change names and don't have enough street signs; people speak English with a distinctive accent; and, we go to the shopping malls and buy Heinz ketchup, see a current movie and eat at Chili's. But we also go to the traditional markets, the souqs: there's the spice souq, and the tailor souq, and some great deals at the used car souq if you're willing to bargain.

Most of all, we're enjoying bridging cultural differences as we get to know our gracious Qatari hosts and students, as well as citizens from throughout the world.

We firmly expect that Carnegie Mellon's partnership with Qatar will be a transformational enterprise, one that will have a significant impact on Pittsburgh and our Pittsburgh campus as well as in the Middle East.

Who's who of who's away, 2004-05

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CMU.

Christopher Genovese, associate professor in the Department of Statistics, will be on leave for the 2004-2005 academic year. During his leave, he will collaborate with cosmologists to study the cosmic microwave background and with neuroscientists to develop new statistical techniques for analyzing brain imaging data.

Robert Kass, professor in the Department of Statistics, will be on leave for the 2004-2005 academic year. During his leave, he will be studying neuroscience at the Center for the Neural Basis of Cognition.

Elaine King, professor of the history of art/theory, in the School of Art, intends to write a book on the evolution of portraits entitled *ABOUTFACE: 1960-2002*. The purpose of this inquiry is to create a framework of interpretation of individuals in portraiture and how it has been influenced by cultural change, as well as technology in a time when the values of Modernity shifted to those of Post-Modernity.

Adam Linstedt, professor in the Mellon College of Science, will be on leave during the spring semester to develop a new research effort at the interface between cognitive neuroscience and a core area in basic cell biology (membrane trafficking.)

Vivian Loftness, professor of architecte-

ture, is taking a one-semester leave in spring 2005 to write, integrate, refine and illustrate a book on the office of the future, titled *The Intelligent Workplace: Sustainable Infrastructure for Dynamic Organizations*.

Alex John London, assistant professor of philosophy, will be on leave for the fall semester. He will be working on the ethical issues in human subjects research and on methodological issues in applied ethics.

Michael McHenry professor in the Materials Science Department is taking a leave of absence from his teaching during the fall. He will use the time to complete chapters of his book, *Structures of Materials* (Cambridge University Press, due to be published in the summer of 2005) which he is co-authoring with Professor Marc De Graef.

Clayton Merrell, assistant professor of art, will be on leave during the 2004-2005 academic year. He will be a resident at the Roswell Artist in Residence Foundation in New Mexico, working on new paintings and prints for exhibitions throughout the year.

Curtis Meyer, professor in the Department of Physics, will be on leave during the fall semester. He will be spending time at the Thomas Jefferson National Accelerator Facility working on the design and development of a new experiment and program.

Kathy Newman, professor in the Department of English will be on leave during the

2004-2005 academic year in order to finish her second book: *Pajama Games: Mass Culture/Class Culture in Post-war America*. This book examines previously ignored forms of mass culture directed at working-class audiences in the 1950s, such as the popular musical *Pajama Games* — a musical about a strike in a textile factory, and *True Story* magazine — a tabloid magazine full of sordid tales about the lives of poor and working-class women.

Edward Rubin, professor in the Department of Engineering and Public Policy will be on leave during the spring semester in order to complete an edited volume and other writings related to the technical and economic potential of carbon capture and storage as a global greenhouse gas mitigation strategy. He will also be developing new research perspectives and collaborations through a series of extended visits with researchers in academia, industry and government.

James Russ, professor in the Mellon College of Science, will be on leave during the fall semester. He will be doing research in High Energy Physics at the 600-member Collider Detector Facility experiment at Fermilab. He will be one of eight project leaders responsible for all experiment operations during that time.

Robert Sekerka, professor in the Mellon

College of Science, will be on leave during the 2004-2005 academic year in order to complete a book on thermal physics and to conduct cooperative research on crystal growth with German collaborators.

Kenji Shimada professor in the Department of Mechanical Engineering, will be taking a leave of absence for the 2004-2005 academic year to work on writing a monogram on finite element mesh generation and its application to engineering analysis.

Marek Skowronski, professor in the Department of Materials Science and Engineering, will be taking a leave of absence of the 2004-2005 academic year in order to work at the Electro-Optics Center at the Pennsylvania State University Applied Research Laboratory. His work will focus on materials for next generation high frequency electronic devices.

Francisco Veloso, assistant professor in EPP, will be on leave in the spring 2005 semester. He will be in Portugal as part of a long-term research and teaching collaboration with local universities. During his leave, he will be working on the dynamics on industry evolution and the acquisition of technological capabilities in small periphery regions, looking in particular at the automotive supplier industry. He will be in Universidade Catolica Portuguesa (UCP) and Instituto Superior Tecnico, both in Lisbon.



ON THE JOB

Give to the food drive

Carnegie Mellon's 11th Annual Food Drive, sponsored by Staff Council, is scheduled for November 1 to 12. Boxes and barrels will be located throughout campus buildings, and you will receive reminders throughout the food drive in various ways. The committee encourages you to help make this year's food drive the most successful yet.

Demand for food assistance in our area is higher than usual due to the severe flooding experienced in mid-September. So, let's add to the campus community's generous participation over the past 10 years that has contributed a total of 41,443 pounds of non-perishables, along with cash donations, to the Greater Pittsburgh Community Food Bank.

Although you can participate anytime throughout the drive, the One Day, One Can event will be held in conjunction with the Human Resources Benefits Fair on Wednesday, November 3.

A Food Drive table will be set up outside the Rangos Ballroom, located on the second floor of the University Center, for you to deposit non-perishable items and sign up for the annual raffle.

The Greater Pittsburgh Community Food Bank, located in Duquesne, distributes food to approximately 350 agencies, including food pantries, soup kitchens and shelters. Drives like ours help the Food Bank to serve 120,000 individuals monthly. Sixty-four percent of those receiving assistance are adults, and 36 percent are children.

During times of great need, as we are now facing, the Food Bank assists *more than* 120,000 individuals monthly. The flooding

caused by the remnants of Hurricane Ivan increased demand, when residents in the hardest hit areas tossed out food that flood waters had ruined.

According to a Food Bank spokeswoman, the flooding affected operations in several ways. Three of the food pantries that the Food Bank supports were "severely damaged." One food pantry has moved, another has reopened and the third remains closed.

Due to the increased demand at the Food Bank, our food drive, more than ever, will help to support those in need of food assistance. Remember, also, that our drive is scheduled in November to help bring joy to local families during the holiday season who might not otherwise enjoy a nice Thanksgiving meal.

The Food Bank is a member of America's Second Harvest, a national network of food banks, which is part of the National Anti-Hunger Organizations (NAHO). In June 2004, the NAHO released *A Blueprint to End Hunger*, which states, "We all are responsible for ending hunger, and if we are to solve this problem, we all must work together."

To learn more about the Greater Pittsburgh Community Food Bank, please visit www.pittsburghfoodbank.org/.

If you are interested in helping with this year's drive, please contact Gloria Dadowski at dadowski@andrew.cmu.edu, Tara Klim at tmk@sei.cmu.edu or Carole Panno at cp1g@andrew.cmu.edu.

JASON BUGG

Annual Address

Be sure to remember President Cohon's Annual Address to Staff at noon Tuesday, Oct. 26 in McConomy Auditorium. Cohon will be answering submitted questions, including questions on:

- Parking and Port Authority service
- Children's tuition and Cyert Center
- Pay equity and raises
- Diversity and treatment of staff.

Refreshments will be provided.

More Than One Way to Support Carnegie Mellon

As employees of Carnegie Mellon, our support is one of the greatest endorsements this institution can receive. Each day, we give of ourselves through the great work that we do, enabling it to run smoothly and to maintain its position as a world-class university. Dr. Cohon acknowledged our collective effort at the Andy Awards ceremony in September, assuring attendees that he realizes Carnegie Mellon could not accomplish all that it does without its superb faculty and staff.

In addition to the good work that we do, hundreds of employees also support the university financially. In fact, last year, more than 660 faculty and staff members contributed more than \$330,000 to the 2003-2004 Faculty & Staff Annual Fund, including approximately 80 gifts at the Andrew Carnegie Society level of \$1,000 or more! These gifts were used to support various programs across campus. Whether providing funds for travel programs, research or lectures, or for purchasing software, library research or computers, all of these contributions made a direct impact on today's students. In addition, these gifts were used to support areas that were selected by the donors and, therefore, personally meaningful to them.

To see so many of us extend our commitment to Carnegie Mellon even further through our financial support is very gratifying. As we move forward with the 2004-2005 Faculty & Staff Annual Fund, hopefully our group can gain even more enthusiasm for this effort, renewing contributions from last year's donors and securing gifts from new campus donors. Such support from faculty and staff can make a huge difference. Gifts of any size designated to any area of interest will have an impact, when combined with gifts from others. As we well know, many areas are in need of additional funding campus wide. Money is needed to improve lab space, support student and faculty research, sponsor student artistic projects and develop more interdisciplinary courses — just to name a few. If everyone contributes what they can, Carnegie Mellon will continue to do amazing things.

For more information regarding the 2004-2005 Faculty & Staff Annual Fund and/or if you are interested in serving as a volunteer for this effort, please contact Carole Panno in the Office of Annual Giving at 8-1617 or cp1g@andrew.cmu.edu. You can also visit www.cmu.edu/give/info for more information or to make a gift online.

The members of 2004-05 Faculty & Staff Annual Fund Committee are co-chairs Larry Cartwright and Everett Tademey; and members Bill Brown, Jennifer Church, Carol Clark, Jim Garrett, Eric Grotzinger, Ivan Howard, Erika Linke, Joan Maser, Michael Murphy, Joseph Pastorik, Walter Schratz and Marilyn Thomas.

CAROLE PANNO

Parking Advisory Board

The Parking Advisory Board (PAB) met on Monday, October 4. The board consists of staff, faculty and student representatives and is chaired by Beth Meiser, special assistant to the CFO. Meiser explained that this year's increase in parking rates was a result of the City of Pittsburgh increasing the parking tax rate from 31 percent to 50 percent in February 2004. The July 2004 rate increase also reflects a 3 percent increase in operating expenses. This tax must be paid for revenues generated on the parking fees for all campus parking areas. Parking Services operates as a self-supporting service, therefore, when the city tax was increased the parking rates also needed to be increased.

Most operators of parking lots throughout the city raised their rates due to the tax increase. Instead of subjecting the campus community to a mid-year rate hike, Parking Services absorbed the additional tax from February to August.

The reorganization of the parking group and administrative discussions on the impact of the tax increase delayed the setting of this year's rates. To announce open enrollment for 2004-05 parking, Parking Services emailed permit holders, posted to official.cmu.news and the parking Website and put an announcement in the 8-1/2 x 11. Due to technical difficulties related to the e-mail notification to permit holders, the deadline for permit renewal was extended until the end of July.

The PAB is looking at many options in an effort to meet the parking needs of the campus community. The board continues to look at ways to provide low-cost parking alternatives as well as meet the needs of those who have intermittent parking needs.

In an effort to ensure spaces are available to permit holders, parking gates operate all the time in the Porter/Wean parking area. Interested faculty, staff or students may purchase an evening/weekend parking permit for this lot for \$80 per semester. This procedure is consistent with the handling of the Fine Arts parking area. Evening and weekend parking remains free in all other campus parking areas except for Porter/Wean, Fine Arts and Warner Hall.

Meiser has offered to attend a Staff Council meeting to answer questions and review comments and suggestions.

BARBARA BUGOSH

Open Access Forum

October 25, 2004
1-2:30 p.m.
Posner Center

The National Institutes of Health (NIH) has opened a 60-day comment period on a proposal to make final manuscripts of all NIH-sponsored research freely and publicly accessible within six months of publication. See <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-04-064.html>.

Join the **Open Access Forum** to discuss latest developments and explore issues around the availability of scientific and scholarly texts.

Panelists—

Mark S. Kamlet
Provost, Carnegie Mellon University

Daviess Menefee
Director of Library Relations for the Americas, Elsevier Ltd.

Clifford A. Lynch
Executive Director, Coalition for Networked Information (CNI)

Mary Jo Dively
General Counsel, Carnegie Mellon University

Sponsored by University Libraries and held in conjunction with the 2004 University Libraries Advisory Board Visit.

Carnegie Mellon
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Tired Kitty

Kitty doesn't know anymore than anyone else why a chair appeared on the Cut early in October. Kitty does not understand art installations, but she knows a nice warm place to curl up after a hard day.

Photo: Brian Connelly



Possible threat to Food and Wine column probably averted

Despite an apprehended threat to the Food and Wine column, we are back. We have been watchful and alert—voluntarily putting ourselves on a lemon-level alert and considering adjusting that with an advanced vanilla-coding, providing we can get the support we need as first responders. We are watchful for the activities of a group possibly calling themselves the Swift-Boat Veterinarians Who Hate Food. Our readers will be pleased to learn that the cultural collective has survived a summer of stressful but futile apprehended attacks by the so-called Swift-boat Vets. These Vets would like to impugn our record and our credentials as analysts and commentators on food and wine. Their ineptitude and political invalidity are clearly shown by their ignorance of the fact that we have no credentials... So we reject the attacks and credentials of any Swift boat veterinarians and from this point forward we will neither brook nor stream any politically motivated critiques of our efforts. We strive to be politically correct in our approval of good things to eat and drink, the more the merrier. We believe that every person in the world should have a fine bottle of wine to accompany either their green beans or rare steak every evening. While we hope that will put an end to any further attacks from these so-called vets, we remain vigilant. And if that isn't good enough, we'll consider sending Ali G to get the real story behind their activities.

We have further breaking news at the end of this piece, after we review another couple of Thai Food restaurants (we think they were Thai). Next time we hope to report on what is new in wine. We prefer to make our recommendations on wine in advance of stocks arriving in the stores so folks will know what to look for. We address items like this especially to faculty new to campus, who may not yet know how best to negotiate the wildernesses of the state liquor stores in PA. Of course, new faculty should know of the age-old and venerated CMU tradition of treating the Cultural Collective to a sampling of their first purchases based on our advice. To make our commentaries clearer, we reprint in the sidebar our wine and food appreciation terms.

Recently we ventured out to the restaurant quaintly called Thai Cuisine, a pleasant enough little place on Liberty Avenue. in Bloomfield. As its name seems to suggest, the focus is on Thai Food. We liked best the fact that we could bring our own wine, having a long-standing disgust with the tendency of restaurants to gouge on wine prices. The folks who operate this restaurant have a lovely manner of welcoming people at the door and the people who wait tables were charming and efficient. The food was not bad, some of it good. The Bangkok seafood dish was fine, except all the seafood dishes seemed much of a muchness, not any real differentiation one from another. Nothing wrong with any of the dishes, just that offering somebody a chance to try what you had ordered didn't produce any real joy. Maybe it comes from using that universal seafood substitute, which shouldn't really happen in a good restaurant. Reprocessed Boston Blue Fish by any other name is not crabmeat or scallops or anything else. The steak dish was good enough, even though it seemed a lot like bits of steak cut up, and therefore comes under the category of bah, better at home. Probably the best dish we had was the calamari, deep fried. And it is always worth knowing where you can get good fried calamari. The ambience of the place is decent upper Bloomfield in tone, and the entranceway is currently graced by a copy of the Pittsburgh magazine with a picture of our glorious leader with his counterpart from Pitt on the cover. So it must be worth a try.



Na Zdorove! AK-47 vodka debuts in this month's installment

We also checked out the new Typhoon, on Highland Avenue opposite that place where Judge so and so used to hang out—hang out what?—don't ask. We are happy to report that there were no untoward acts by any members of the bench while we were in Typhoon. It is altogether decorous and delightful. It did take us a while to stop calling it the Ty-Food restaurant. Ty-PHOON! That's it. There's a review of Typhoon in the current issue of the Shady Ave mag, which has a photo of the restaurant. We have to confess that photo made us a bit wary. We love decor, but are pretty happy in other kinds of environments if the food is good. We had mistakenly formed the impression that going to Ty-PHOON would be like visiting an art gallery, or an ashram, and that eating ty-food was going to be like some kind of pseudo art event. Put it this way,

Typhoon is no Big Jim's. But the surroundings are really very pleasant. The space itself is just one of those more or less open plan spaces, but the door is great with very interesting steel sculptures like bamboo that also enhance the interior walls. The more or less open space is visually acceptable, but the noise level is a problem. Now noise is a good thing, it tells you that there are lots of people there validating your choice of restaurant and all having a good time. But the Ty-folks should give some thought to screens or something that might baffle some of the sound.

The food was really good. The generous portion of shrimp tempura appetizer was perfectly done, light and not overcooked, with a tasty dipping sauce. The halibut dish was fine although the chili/tamarind sauce caused us to discuss whether or not it was

too hot. We agreed that it was hot, but not too hot. The heat did seem to disguise any tamarind flavor however, and there was probably too much of the sauce on the smallish piece of halibut—could it have been slightly overcooked? Frozen too long? Thawed too quickly? Something like that.

There was a special appetizer: was it called a fresh roll? Lots of textures and flavors in a fresh wonton wrapper and presented sliced, like maki, very good. The salmon main course was good too, but we can't remember the name of the sauce (it was green). It wasn't mentioned in the P-G review. <www.post-gazette.com/pg/04191/343550.stm>. Salmon was rubbed in spices, cooked until just opaque, not overcooked. Spicy but not overwhelming. Differs from more traditional Thai restaurants in that they don't ask about levels of heat. Came with a little steamed rice and some crunchy asparagus tempura. Both the side dishes (the crab fried rice and the little fried green things) were excellent. Coconut ice cream for dessert was creamy and not too sweet.

We'll go back, and look forward to checking it out for lunch as well.

Now, to the really important culinary news that broke recently. We were delighted to discover that the renowned inventor of the AK-47, Mikhail Kalashnikov, has now invented a brand of vodka. He is quoted as saying, "I've always wanted to improve and expand on the good name of my weapon by doing good things," Mikhail says that it is not his fault that his gun has spread all over the world. Of his vodka he says that it is best enjoyed with friends. That is probably true also of his gun, and he offers no views on how the two would mix. Nevertheless, we plan to send the Swift Vets a case of Vodka 47 as a precaution. And we contemplate further developments. How about a Remington cognac, Remi Martin perhaps. Or Jim Bowie knife beer: try Bowie Beer, a cut above the rest. We're willing to wait for the Edward Teller Bloody Mary; and so on.

The f&wc was composed in differing portions of Barbara Anderson (Drama), Cletus Anderson (Drama Emeritus), Jim Ferla (Music), Otto Foghus (GSW), Alan Kennedy (English), Janet Rex (SEI)

A guide to technical food terms used in the column

Of wines:

Drinkable: excellent, wahoo, we like it. Used with a wide range of qualifiers: really, most, almost, not-un, etc.

Hmmm...: Well, like most wines, ok we guess, what do you think? Let me try a bit more.

Pleasant: like chatting with the Dalai Lama, passes the time and can be mildly interesting. We'll look for something bolder next time.

Crap: much less than drinkable, probably worse than HP, although it's a toss up.

HP: Mistakenly, or perhaps inadvertently, passed through a horse, or similar, before bottling.

PVS: Paint or varnish stripping potential; occasionally with a number rating, as in PVS 4.5.

Of Food:

Really Good: praise of the highest sort.

AT: like gumming an angelic body part. Seldom used. Acceptable alternative equivalent:

MiM: melts in the mouth.

BAH: better at home, not worth the trip to the restaurant: applies to most foods and tends to be used indiscriminately.

Edible: won't immediately cause brain damage or organ loss.

Crap: definitely not AT or MiM and probably lower than edible.

Recently added: OK, meaning is obvious.

Midani's painting a victory over grief and suffering

Watfa Midani is a winner. A few years ago she lost her husband, Akram Midani, an excellent teacher and an extraordinarily cultivated man who served for almost two decades as dean of the College of Fine Arts at Carnegie Mellon. He was the guiding light of her life, and his death sent her into a deep depression. Before his death, however, he had urged her to continue painting, and this advice, together with her natural optimism, innate talent and harmonious temperament, produced a triumphant flowering of artistic achievement.

Looking at her paintings, I knew how the art critic Louis Vauxcelles must have felt in 1905 when he saw a classical bust in the style of the Renaissance sculptor Donatello exhibited in the same room as the violently colored canvases of Henri Matisse, André Derain and other revolutionary young artists. "Donatello au milieu des fauves!" he exclaimed — "Donatello among the wild beasts!" — thereby giving the new movement of Fauvism its name. Here, as in 1905, bright, expressive colors envelop the viewers and elevate their emotions. Midani has instinctively followed Matisse, who wrote, "We must learn how to discover joy in the sky, trees and flowers. How to draw happiness from ourselves, from a full day's work and the light it can throw into the mists surrounding us." She has discovered the joy of life by painting, and her paintings radiate joy. The viewer leaves the exhibition feeling uplifted — indeed, even a little dizzy from her intensely emotional transposition of nature and her powerful color.

As in her earlier work, Midani has drawn inspiration from Persian miniatures, Oriental faience, Coptic fabrics and other non-Western sources. She retains these superbly decorative qualities while adding some newly won insights: the picture becomes a spiritual space in which light and space are expressed and constructed by means of color, and the innovative use of Plexiglas sheets gives the image a greater illusion of depth. Although Midani treats colors like sticks of dynamite, the overall feeling of her work is fresh without being harsh because of the harmoniously arranged planes and rigorous composition. She transmutes the lines describing objects into artful arabesques that transcend their representational significance and directly affect the viewer's sensibility. In the autonomous life of her ornament, color, line and light are never divorced from the object. Midani's principal theme is nature: sunrise, sunset and especially fish in motion, whose forms display an endless variety of shapes and colors. The decorative value of these aquatic creatures occasionally transcends their representational import. They seem to be dancing to classical music, Oriental as well as Occidental, and the paintings convey the melodies themselves.

Her exhibition in June at the Miller Gallery was an artistic and personal *tour de force*, a hard-won victory over grief and suffering. It's a pity that classes had already ended and students were not here to see this joyous exhibition. Hopefully, however, the larger community will be mobilized to celebrate Watfa Midani's triumph.

EDITH BALAS

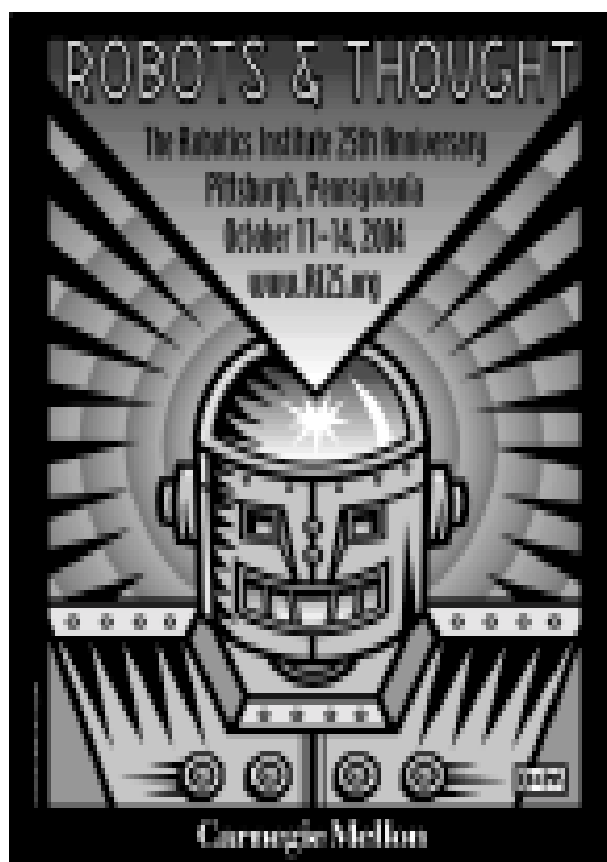


Above: Symphony Pastoral, one of the paintings included in Watfa Midani's exhibit in June and July in Miller Gallery.

Original in color.

Photo courtesy Watfa Midani.

It's my birthday!



Has it been 25 years? We've watched Navlab cruise Oakland and Dante climb Mt. Erebus. We've thrilled to the Mobots, cheered the Mars rovers and laughed at the antics of Valerie the roboceptionist. Here are just a few standout robotics projects from the last two decades.

1980s

- NAVLAB Vehicle
- CODGER Blackboard
- Ambler
- Driving Pipeline Architecture

1990s

- Autonomous Planetary Rover
- AUtomotive Run-Off-Road Avoidance system (AURORA)
- AutoBrief
- Autonomous Land Vehicle In a Neural Network (ALVINN)
- ELVIS
- MANIAC
- ANDI
- ALS
- AMELIA
- Daedalus
- Dante II eight-legged volcano crawler
- HOUDINI

- Lunar Rover Navigation
- Mars Rover in Atacama
- Minerva
- Mobot Races
- No Hands Across America
- Urban Search and Rescue
- Xavier

2000s

- Dragon runner spy robot in Iraq
- EnviroBlimp
- Explorer: natural gas lines
- Nomad Antarctic explorer
- Pearl robotic nursing home assistant
- Personal Rover
- Robo origami
- RoboSoccer
- Sandstorm robotic racer
- Search and Rescue robots
- Valerie

Second Annual Robot Hall of Fame Induction: Humans Celebrate Robots



Robot Hall of Fame inductees are, back row from left, Shakey (Ray Perrault, SRI and Peter Hart, Shakey Research Team and Ricoh Innovations Inc.), C-3PO Anthony Daniels, ASIMO (Stephen Keeney, Honda and ASIMO front), Dean Jim Morris, CM, Robby the Robot (Robert Kinoshita, MGM) and ASTRO BOY (Takayiki Matsutani, Tezuka Productions Co.) Dean Morris with Robby the Robot, Cleah Schlueter and Alan Guisewite, SCS, with Robby the Robot

It was a star-studded robotic evening with a very human touch. Luminaries from the scientific and entertainment world came together to celebrate the 2004 class of inductees into the Carnegie Mellon "Robot Hall of Fame", a partnership program with the Carnegie Science Center and home to the hall. The inspiration for the development of the hall was credited to Jim Morris, former Dean of the School of Computer Science and now Dean of the SCS West Coast Campus. Inductees for this year are: ASIMO, Shakey the Robot, Astroboy, Robby the Robot and C-3PO. For details on each of the inductees and the Robot Hall of Fame, visit <http://www.robothalloffame.org> this event was held as one of the many programs offered during the Robotics Institutes' 25th Anniversary, held Oct. 11-14.

One robotic event often leads to another. The morning after the induction ceremony, Valerie, the Robotic Receptionist located in Newell-Simon Hall was being visited by none other than C-3PO, in the form of actor Anthony

Daniels. I just happened to be in the area and to my delight found myself engaged in a dialogue with both humanoids. C-3PO, a protocol droid known to all of us from his role in the Star Wars movie series, speaks 6M binary languages and is always working to bridge the gap between humans and robots. I experienced that charm and wit first hand and can attest to his conversational abilities. Anthony Daniels, who has played C-3PO since 1976 came to visit the university after receiving C-3PO's accolade to bridge that gap in person. He kindly autographed his picture for me and offered to record my answering machine message. He must be stuck on Tatooine because I'm still waiting for him to come and do the recording. Count me in as one human who believes both that he will bridge that gap and show up to record my message.

LYNN BERARD

Tepper School's Finn Kydland, Alumnus Edward Prescott Win Nobel Prize in Economics

Finn Kydland, a professor at Carnegie Mellon's Tepper School of Business and the University of California at Santa Barbara, and Carnegie Mellon alumnus and former Carnegie Mellon business school professor Edward Prescott, have won the Nobel Prize in Economic Sciences.

According to the Associated Press, the pair received the Nobel Prize for their work "that showed that driving forces behind business cycle fluctuations and the design of economic policy are key areas in macroeconomic research."

Kydland and Prescott made fundamental contributions to macroeconomic analysis and the practice of monetary and fiscal policy in many countries, the Royal Swedish Academy of Sciences said in its citation.

"I am delighted to congratulate Finn and

our alumnus and former faculty member Ed Prescott on behalf of the university. They continue a long tradition of path breaking research in economics at Carnegie Mellon," said Carnegie Mellon President Jared L. Cohon.

Kydland, who earned his Ph.D. in economics at Carnegie Mellon in 1973, taught at Carnegie Mellon from 1978-94 before leaving for the University of Texas. He returned to Carnegie Mellon in 1995. He is currently on leave, teaching at the University of California at Santa Barbara.

Kydland has done work on how the money supply affects the business cycle and on international trade.

Prescott, Kydland's doctoral faculty adviser, earned a Ph.D. from Carnegie Mellon in 1967 and was a Carnegie Mellon profes-

sor from 1971-80. Currently a professor at Arizona State University, Prescott's research has focused on what causes economic depressions, why some countries thrive while others stagnate economically, and what boosts a nation's economic productivity.

Kydland and Prescott are the fifth and sixth business school faculty members to receive this prestigious distinction. Other Carnegie Mellon business school faculty Nobel laureates include: Herbert Simon (awarded 1978), Franco Modigliani (awarded 1985), Merton Miller (awarded 1990), and Robert Lucas (awarded 1995). Other Nobel Prize winners with connections to Carnegie Mellon include faculty members Clinton J. Davisson, 1937 in physics; Otto Stern, 1943 in physics; John Pople, 1998 in chemistry; Walter Kohn, 1998 in

chemistry; and alumni John F. Nash, Jr., 1994 in economics; and Clifford Shull, 1994 in physics.

"Professors Kydland and Prescott reshaped the way all economists think," said Tepper School of Business Dean Kenneth Dunn. "In true Carnegie Mellon style, they applied an analytical, quantitative and interdisciplinary approach to profound economic questions. I congratulate them both on this well-deserved recognition."

This year's prize is worth approximately \$1.36 million, which will be shared by the two men. Additionally, each will receive a gold medal and diploma at a formal ceremony on Dec. 10, the anniversary of Alfred Nobel's death in 1896.

MIKE LAFFIN

Living art, art that lives

Dialogue in a Landscape Exhibition Opens at Miller Gallery



Photos: Lynn Berard

“Dialogue in a Landscape: The Kraus Campo, A Garden for Carnegie Mellon University” is an exhibition of drawings, plans and models created by artist Mel Bochner, landscape architect Michael Van Valkenburgh and his staff, showing the development of the design for the new garden, the “Kraus Campo.” The exhibition opened at the Regina Gouger Miller Gallery Oct. 8, and runs through Dec. 12.

The result of a collaboration between Bochner and Van Valkenburgh, the Kraus Campo has been conceived as a single integrated work combining art and landscape design. Rare among projects of this kind, it challenges the very definition of a garden: it is both garden-as-sculpture and sculpture-as-garden.

On the first floor of the exhibition, some of the early provocative ideas that did not make their way into the final Campo scheme are displayed — not realized because the designers’ concepts evolved or technical considerations prevented their inclusion. The exhibition also then illustrates the development of components of the Campo’s final design, showing the difficult process of design refinement to get each element just right.

The exhibition also features large-scale prints of Van Valkenburgh’s projects at other venues. These huge images, some as large as 9’ by 19’ are meant to invite viewers “into” the landscapes.

A new text work by Bochner, related to the Campo, will also be presented on the gallery’s third floor. The installation refers to the 6 by 58-foot-long, tiled quotation on the Posner Hall wall from the philosopher Ludwig Wittgenstein. In the garden the words of the quotation have been transcribed in reverse order, while in the gallery the letters have been transcribed in reverse order.



“I want these pieces to delay the viewers’ comprehension, stop them in their tracks for a minute. In a sense, they require deciphering that reveals “reading” as more problematic than it is usually taken to be. The viewer experiences momentary illiteracy, making the act of reading strange again,” said Bochner.

The Kraus Campo itself is located between the College of Fine Arts building and the Tepper School of Business. The area offers a meeting place symbolic of Carnegie Mellon’s multidisciplinary philosophy. Along the meandering paths of the garden and upon its central platform, students and faculty can relax at this communal crossroads of the arts, business, science and humanities.

At the heart of the garden sits the Campo, a 25 by 60 by 3-foot, tile-covered sculptural platform based on the shape of a French curve, a tool common to artists, architects and engineers alike. Black numbers imbedded in white tiles that cover the platform are indicative of the numerical sequencing patterns in much of Bochner’s art.

Bright orange pathways swing out from the center platform winding through drifting mounds of evergreen boxwoods, brightly flowered azaleas and semi-dwarf red level Japanese barberry. The designers chose these plantings for their visual qualities, hardiness and compatibility with the four seasons of western Pennsylvania. The composition of the plantings provides a counterpoint of

colors and shapes that offer a different character in each of the four seasons.

Jill Gansman Kraus (A’74) and Peter Kraus of New York City have commissioned the garden. Jill Gansman Kraus is a Carnegie Mellon trustee who is dedicated to advancing the role of contemporary art in the life and environment of the university. She envisions a public art collection on campus that will both enhance and reflect the School of Art’s impact and preeminence in the field. The Kraus Campo is the first project in Carnegie Mellon’s plan to build a collection and to integrate campus life with the artwork of its renowned alumni.

For more information, visit www.cmu.edu/millergallery.

ERIC SLOSS