

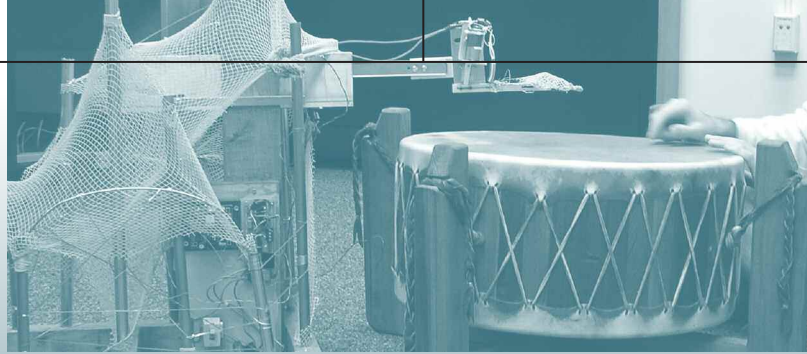
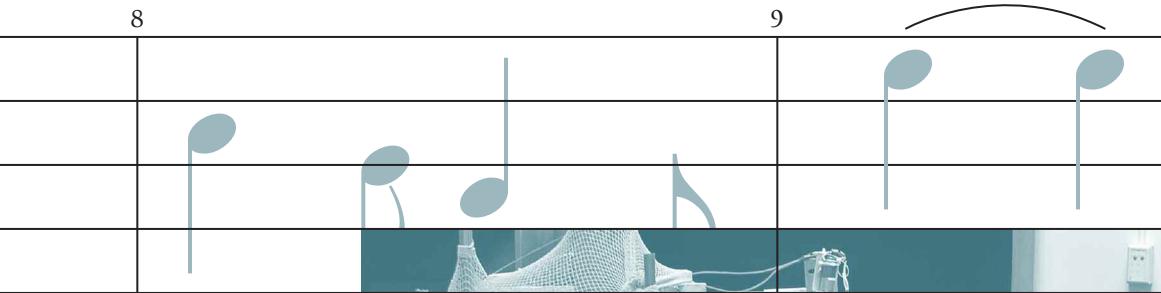
College of Architecture

# newsletter

winter/spring 2005



ARCHITECTURE  
ARTS AND TECHNOLOGY/MUSIC  
BUILDING CONSTRUCTION  
CITY AND REGIONAL PLANNING  
CONTINUING EDUCATION  
INDUSTRIAL DESIGN  
PH.D. PROGRAM



# Letter from the Dean



*As can be seen in the various stories throughout this issue of our newsletter, a number of new and exciting things continue to happen at the College. We have made significant progress in filling the College's endowed chairs and visiting scholar positions, in recruiting outstanding new students through the President's Scholarship Program, adding new digital laboratories, renewing the accreditation of our programs in Building Construction and Industrial Design, continuing the development of our research centers and celebrating the continuing accomplishments of our alumni. All of these developments are in the context with the expanding enrollment of the College with nearly a 40 percent increase in this year's entering class.*

*At the same time, the College continues to build for the future. This spring, we are presently concluding faculty searches in City and Regional Planning (three faculty positions), in Industrial Design for a new director of the program, in our Doctoral Program (one faculty position) and in Music Technology (one or two faculty positions). We are also working toward the addition of space and facilities for our programs and centers, currently focusing on the fund-raising and state support needed for the renovation of the newly designated Hinman Building for the College and the needed space improvements in the East and West buildings of our main building. Targets for immediate space improvements include the Architecture, Industrial Design, and Ph.D. Programs, as well as the IMAGINE Laboratory. Long-term strategic and facility planning is also underway, including the identification of possible new building sites for new facilities for our academic programs, specifically focusing on the needs of Building Construction, the GIS Center, Music and related academic and research programs.*

*As we approach the conclusion of this academic year, we could not be more pleased with the progress our faculty, staff, students and alumni are making and the momentum that has been established. At the same time, there is much more to be done as we strive to ensure that the College's infrastructure and facilities are equal to the advanced national and international standing of our programs and centers.*

Thomas D. Galloway, Ph.D.  
Dean and Professor

## Homecoming Reception 2004



As a part of the campus-wide festivities celebrating 2004 Homecoming Weekend, where Georgia Tech had a 24-7 win over Duke, the College of Architecture hosted a reception for returning alumni. Faculty, staff, and alumni mingled as they listened to Style Points, one of Georgia Tech's outstanding jazz ensembles.



# College News

## Award-Winning Architect, Designer Joins Faculty as First Endowed Chair



An award-winning architect and principal partner in one of the nation's leading design firms has joined the College of Architecture as its newest endowed faculty member.

Monica Ponce de Leon, formerly an associate professor in the Harvard Graduate School of Design, joined the Georgia Tech faculty last fall.

She is the first Thomas W. Ventulett III Distinguished Chair in Architectural Design, endowed by and named after the 1957 Tech alumnus whose global architecture firm designed many of Atlanta's landmark buildings, including the Proscenium, the Woodruff Arts Center, and the Georgia World Congress Center.

The new endowed chair is the first for the Architecture Program and is expected to bring great visibility to the College of Architecture as a whole.

"Filling the Ventulett Chair enables the College of Architecture to expand its intellectual horizons," said Thomas Galloway, dean of the College of Architecture. "With her distinguished background and successes to date, Professor Ponce de Leon will not only elevate the educational profile of the college, but also help us heighten the critical importance of design in the architecture, engineering, and construction industries, nationally and internationally."

For the past eight years, Ponce de Leon taught design studios and courses in visual studies and ecological fabrication at Harvard. Before that, she taught at Northeastern University and the School of Architecture at the University of Miami, where in 1993 she was honored as Professor of the Year.

In addition to her teaching, Ponce de Leon is a principal partner in the Boston design firm of Office dA. The firm's broad range of work—from urban planning to furniture design and plans for residential and cultural buildings—has won more than two dozen awards. The firm's work also has been exhibited at New York's Museum of Modern Art and at the Venice Biennale.

"In a short period of time, Office dA has established itself as one of the leading design firms in the country," said Ellen Dunham-Jones, director of the Architecture Program. "Their work is consistently intelligent at all levels, but their innovative and visually stunning assemblies of materials have especially earned them a reputation for advancing architectural aspirations for work that is both high-tech and high-touch."

Dunham-Jones added: "I'm thrilled that Professor Ponce de Leon and our students will be able to make use of Georgia Tech's Advanced Wood Products Lab and materials science research to further advance her work on digitally manufactured architectural components."

Professor Ponce de Leon has earned several prestigious honors, including the Architectural League of New York's Young Architects Award in 1997 followed by its Emerging Voices Award for 2003. In 2002, she was one of the youngest recipients ever of the highly prestigious American Academy of Arts and Letters' Award in Architecture.

Ponce de Leon was born in Venezuela. She received a bachelor's degree from the University of Miami in 1989, followed by a Master of Architecture and Urban Design from the Harvard Graduate School of Design in 1991.

The Thomas W. Ventulett III Distinguished Chair in Architectural Design has been made possible by the generous gifts of Mr. Ventulett and through commitments made by his firm—Thompson, Ventulett, Stainback and Associates—his family, friends, and business associates.

"Tom has a real love and passion for architecture," Galloway said. "The Architecture Program's first endowed chair could not have a better name associated with it, as Tom Ventulett truly represents one of the best in the field."

Endowed chairs are crucial for attracting world-class students and faculty to Georgia Tech. They also attract eminent teachers and scholars who serve as academic hubs for the curriculum and enrich research efforts among the various colleges.

## Dick Goodman Joins Development Council



David R. "Dick" Goodman Jr., president of Madison Chemical Co. Inc., recently joined the College's Development Council, an advisory board comprised of distinguished alumni and friends. Madison Chemical manufactures hard

surface cleaners and conversion coatings used in the production of metal and plastic products as well as compounds for the paper and food processing industries.

Goodman also serves as president of the City of Madison Board of Aviation Commissioners and on the Executive Committee as a past president of the Lide White Memorial Boys and Girls Club. He is an active pilot with a commercial license, which includes multi-engine, instrument, and single pilot-type ratings in the Cessna Citation 525 series aircraft. His past posts include chairman of the City of Madison Plan Commission and chairman of the Board of Zoning Appeals. Goodman received his B.A. in history from Indiana University in 1971.

Goodman and his wife, Connie, live in Hanover, Indiana. They have two children: Hilary A. Goodman, who works in the editorial group of Simon & Schuster Children's Division in New York, and David W. Goodman (BArch 2004), who is currently enrolled in the Master of Architecture program at Georgia Tech.

"Both Connie and I hold the Georgia Tech College of Architecture in the highest regard and look forward to working to further the success of the program," said Goodman. "We have a particular interest in the Paris Program and its life-changing impact upon its participants."

College of Architecture Dean Thomas Galloway established the Development Council in 1994 with thirteen members. Over the years, the size of the Council has grown to thirty-four members who are distinguished professional and community leaders. In accordance with the College's long-range strategies for academic excellence, the group serves as a sounding board for the dean in an advisory capacity as well as the central fundraising arm of the College.

## Sabir Khan to Serve on Public Art Advisory Committee



(From left to right) BCA Director Camille Love, PAAC members Gregor Turk and Lisa Tuttle, Atlanta Mayor Shirley Franklin, PAAC members Sabir Khan and Arthur Robinson, and DPRCA Commissioner Dianne Harnell Cohen

In October, Atlanta Mayor Shirley Franklin announced the appointment of a nine-member Public Art Advisory Committee (PAAC) to advise the mayor and the Bureau of Cultural Affairs on the city's Public Art program.

The Public Art Advisory Committee members are: Sabir Khan, Associate Dean, College of Architecture; Mtamanika Youngblood, community activist; artists and curators Lisa Cremin, Akua McDaniel, Lev Mills, Gregor Turk, and Lisa Tuttle; and business leaders Jack Portman and Arthur Richardson.

"I am honored to be working with such an impressive group," said Khan. "This is a great opportunity for us to help the city raise the bar for itself when it comes to making decisions that affect the quality of Atlanta's built environment."

Franklin's appointees are a diverse group, representative of the arts community and the city, while staying true to the recommendations outlined in the Public Art Master Plan. "I am pleased to appoint a distinguished group of artists, related professionals, and arts advocates to the Public Art Advisory Committee," said Franklin. "I look forward to meeting with them and to receiving their recommendations on the implementation of the city's Public Art Master Plan."

The recent establishment of the Trust Fund for Public Art, along with the appointment of the PAAC, demonstrates the mayor's commitment to full implementation of the Public Art Master Plan under the administration of the city's Bureau of Cultural Affairs in the Department of Parks, Recreation, and Cultural Affairs. PAAC will address the serious issues facing the city in determining the future direction of public art in Atlanta, including the per cent for art ordinance, the Noguchi Playscape, and the maintenance of the city's public art collection.

## College Welcomes Incoming President's Scholars

The President's Scholarship (PS) is Georgia Tech's most prestigious merit scholarship and is offered annually to outstanding high school seniors who have demonstrated superb leadership skills, are among the top few in their class in academic performance, and show promise of continuing such performance in college and beyond. In 2004, four President's Scholars enrolled in the College of Architecture. They are: Julie Champion, Ting Cheng, Diane Dutcher, and Ben Robbins.

College of Architecture Dean Thomas Galloway expressed his appreciation for the critical role that the President's Scholars play in the life of the College. "These students will not only enjoy a challenging and rewarding educational experience, they will also contribute in extraordinary ways to



# College News

## College News continued

the overall education experience for the College of Architecture. We could not be more pleased to have these very talented students select Georgia Tech."



**Julie Champion**  
Major: Architecture  
Hometown: Savannah, GA  
Graduating: Spring 2008

*Career Aspirations:* "I would like to graduate with a master's degree in architecture. After that, I plan to join an architecture firm, and perhaps I will own my own firm one day."

*Why Georgia Tech:* "I chose Georgia Tech because it has one of the best architecture programs in the Southeast."



**Ting Cheng**  
Major: Industrial Design  
Hometown: Dalton, GA  
Graduating: Spring 2008

*Career Aspirations:* "I would like to pursue a career in the field of art and design, whether as the owner of my design firm,

working as a part of a team designing for various companies, as an industrial design professor, or as an artist, gallery director, or museum curator. As long as I am able to express myself artistically, I think I will be fulfilled in whichever career or careers I do choose."

*Why Georgia Tech:* "There were many things that attracted me to Georgia Tech. Aside from Tech's high reputation of continuing excellence and progress, I knew that the Industrial Design Program would thoroughly prepare me in my studies and in achieving my future goals. In addition, I knew that Tech and the Atlanta area would provide me with many opportunities not found elsewhere. Also, I knew that I would be able to joint-enroll at the Atlanta College of Art to take art classes. From my point of view, I would be receiving two very thorough educations—art from an engineering and industrial side and one from a simply visual art perspective."



**Diane Dutcher**  
Major: Architecture  
Hometown: Marietta, GA  
Graduating: Spring 2008

*Career Aspirations:* "I used to think that after graduating from Georgia Tech I wanted to attend graduate school and earn my mas-

ter's degree in architecture, going on to take the required exams and serve my internship period in order to become a licensed architect. Almost upon the completion of my first semester here, I am questioning my initial career plans. I am now considering earning a master's degree in either city and regional planning or industrial design. The community and service-oriented aspect of the City and Regional Planning Program appeals to me while the creative innovation of the Industrial Design

Program gets me excited. I have always thought that architecture was the only field for me, but as I have acquired knowledge about the other career paths during the Common First Year, I have become increasingly interested in dabbling in several different fields. Eventually, no matter what field I decide to settle into, I want to give back to the community through my work, as volunteering is my ultimate passion."

*Why Georgia Tech:* "Having lived in Marietta, Georgia, all my life, I have always thought of Georgia Tech as home. Although Tech initially was not my first choice school, after visiting the campus several times and talking to several alumni and students, I decided to look seriously at attending the College of Architecture here. Being from in state, I felt that Georgia Tech provided me with an incredible and versatile education without the huge tuition costs of other out-of-state schools. Plus, the fact that such a well-recognized technology school has such a successful athletic program lured me in as well. Overall, I just love the atmosphere here and I can't imagine myself anywhere else."



**Ben Robbins**  
Major: Architecture  
Hometown: Ringgold, GA  
Graduating: Spring 2008

*Career Aspirations:* "I plan to get my master's in architecture. I am leaning toward a specialization in city and regional planning."

*Why Georgia Tech:* "I chose Georgia Tech because it was simply too good to pass up. I could not have asked for a better college situation: one of the best architecture schools in the country in state. It made too much sense for me to go here."

"The President's Scholars this year are just fantastic," said Associate Dean Sabir Khan. "They stood out on the first day and they continue to do so now."

Julie, Ting, Diane, and Ben join the ranks of other COA students who were awarded the President's Scholarship in past years. These notable students are:

<b>J. C. Elder</b>	<b>Architecture</b>	<b>Entered Fall 2000</b>
<b>Katie Green</b>	<b>Architecture</b>	<b>Entered Fall 2002</b>
<b>David Kessler</b>	<b>Industrial Design</b>	<b>Entered Fall 2003</b>
<b>Erin Looney</b>	<b>Building Construction</b>	<b>Entered Fall 2002</b>
<b>Ryan McFerrin</b>	<b>Industrial Design</b>	<b>Entered Fall 2001</b>
<b>Jennifer Sigg</b>	<b>Building Construction</b>	<b>Entered Fall 2002</b>
<b>Robert Woodhurst</b>	<b>Architecture</b>	<b>Entered Fall 2003</b>

## Eleventh Annual Reception for Parents

The College of Architecture hosted its Eleventh Annual Reception for Parents in collaboration with Georgia Tech's Family Weekend in October. During the reception, parents and prospective students got an inside glimpse of campus life, the opportunity to view undergraduate student work, and a chance to speak with College faculty and staff.



## In Memory: Virginia Heffernan Hancock

Virginia Heffernan Hancock, a good friend of the College and sister to the late P. M. Heffernan, director of the School of Architecture from 1956-1976, died on February 22, 2004, at the age of 88.

A native of Lovilla, Iowa, Hancock graduated from Iowa State University in 1939 where she was a member of Alpha Delta Pi sorority and Delta Phi Delta honorary sorority. She then attended the Chicago Art Institute, where she became an accomplished artist in fashion design. She came to Atlanta in 1948 to join her brother.

She taught for ten years at the North Avenue Presbyterian School before permanently shifting her career path by becoming a technical illustrator at Lockheed, where she worked for thirty-two years. She drew highly precise drawings for pilot training manuals of the various Lockheed planes, winning several awards for her illustrations.

Hancock will be remembered for assisting the College of Architecture in acquiring the house redesigned and renovated by P. M. Heffernan and in facilitating its acquisition of a collection of books, drawings, and papers belonging to her brother that are housed in the P. M. Heffernan Design Archive and International House. She will also be remembered as a remarkable artist, gifted in drawing, painting, creating jewelry and pottery, writing poetry, and as an excellent seamstress.

College of Architecture Dean Thomas Galloway said, "Virginia was very much a part of the history of the College of Architecture and she has left an important legacy that will benefit future generations of College students and faculty."

Hancock was a member of the Atlanta Order of Eastern Star and St. Mark United Methodist Church. She is survived by several cousins.



# Alumni News

## 2005 Alumni Committee

The College of Architecture Alumni Committee is made up of eighteen Georgia Tech alumni representatives from each program: Architecture, Building Construction, City and Regional Planning, Industrial Design, Music, and the Ph.D. Program. The Committee strives to provide a link between alumni and the College through effective communications, cooperation, special programs, networking, and advisement. The Committee was a co-sponsor of the February 26 Dean's Symposium on the Changing Nature of Practice featuring Michael Arad (MArch 1999), designer of the World Trade Center Memorial. If you're interested in becoming involved, contact Rick Hunt at [RHunt@newenergyassoc.com](mailto:RHunt@newenergyassoc.com).



(From left to right) Ray Douglas (BArch 1975); Bill Marsh (BS 1993 BC & BS 1993 Mgmt); Jennifer Ball (BS Arch 1994 & MCP 2001); Rick Standard, secretary/treasurer (MArch 1997); Thomas Galloway, dean of College of Architecture; Doug Allen, associate dean of College of Architecture; Steve Foster, vice president/president-elect (BS BC 1977); Raymond Clark, immediate past president (BS Arch 1977); and Rick Hunt, president (BEE 1992 – representing the Music Program).

## Award-Winning Architects Eric Brock, David Green Join Lord, Aeck & Sargent

In a move that will allow Atlanta architecture firm Lord, Aeck & Sargent to pursue the housing and mixed-use development market, including college and university projects, the firm recently announced that award-winning Atlanta architects Eric B. Brock, (BArch 1988) AIA, and David E. Green, (BArch 1987 & MArch 1991) AIA, partners and co-founders of Brock Green Architects and Planners, have moved their practice to form a dedicated studio group within Lord, Aeck & Sargent. Green is also a studio design critic at the College of Architecture.

The new group, which will be called the Housing & Mixed-Use Development Studio, enhances and complements the firm's established expertise in educational, historic preservation, arts and culture, and science markets. The studio will be staffed by Brock (Studio director), Green, and eight other architects and intern architects, all of whose careers in architecture have been focused on the planning and design of housing and mixed-use developments.

"This move offers David, me, and our staff a great opportunity to join one of the best architecture firms in Atlanta, and the one with which we're most compatible in terms of both design philosophy and culture," Brock said. "It will allow us to continue doing excellent design work, expand into institutional markets, and enjoy an array of great resources, expertise, and support services that we don't currently have."

"This is an exciting blending of experience where each firm's portfolio strengthens those of the others," said Tony Aeck, Lord, Aeck & Sargent managing principal. "We're looking forward to a great deal of collaboration among experts from our Historic Preservation and Education Studios with the Housing & Mixed-Use Development Studio."

## Fielder Named Acting Chief of Staff and Interim Chief Acquisition Officer at GSA

Edwin E. Fielder Jr. (BC 1977) was recently named acting chief of staff and acting interim chief acquisition officer by Administrator Stephen A. Perry of the U.S. General Services Administration. Fielder currently serves as GSA's regional administrator for the agency's Southeast-Sunbelt Region.

"Ed is an extremely capable professional, and GSA is very fortunate to have the benefit of his experience and expertise, which will serve us well in this transitional period until we select a permanent chief of staff," said Perry.

"I am honored by this opportunity to serve in this capacity at GSA in the Bush Administration and look forward to the new challenges it brings," said Fielder.

As GSA's regional administrator for Alabama, Georgia, Florida, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee, Fielder is responsible for the delivery of critical operational and support services provided to federal agencies, including the management, construction, and leasing of workspace; the procurement of information technology and telecommunications solutions; and the acquisition of furnishings, equipment, vehicles, office supplies, and other services. Additionally, Fielder has been an integral part of the GSA senior management team that developed and implemented GSA's "Get It Right" program dedicated to excellence in federal acquisition.

Prior to his arrival at GSA, Fielder was employed by CB Richard Ellis Inc., where he managed a diverse facility management portfolio for Delta Air Lines. Fielder graduated with a bachelor's degree in Building Construction from Georgia Tech in 1977, later earning an MBA in Management from Golden Gate University in San Francisco in 1983. Fielder is also a 1994 graduate of the Marine Corps Command and Staff College in Quantico, Virginia. In 2001, he qualified as a facility management administrator and a real property administrator after completing coursework at the Building Owners and Managers Institute in Arnold, Maryland. Originally from Rhode Island, Fielder and his family currently reside in Marietta, Georgia.

## Alumni News At A Glance

**John Abbott** (BArch 1975) of Stevens & Wilkinson Stang & Newdow Inc. was awarded the 2004 AIA Georgia Design Award for the design and installation of the exhibition, "Anne Frank in the World: 1929-1945." The 2,500-square-foot exhibit space was installed in the continuing education space at Kennesaw State University. Seventy-five backlit panels tell the story of Anne Frank and her family. A faux bookcase, similar to the one the Franks slipped through to access their hideaway, leads the visitor into the main exhibit, which includes a replica of Anne's bedroom. A sliding wooden door reminiscent of the railroad cars the Nazis used to transport Jews to the concentration camps leads to a room exhibiting student artwork. The exhibit will remain on display through 2006.

**Phillip M. Crosby** (MArch 2003) and **Kenneth Cowart** (MArch 2003) received a Merit Award from AIA Tampa Bay's 2003 Design Awards for their entry in the WTC Memorial Competition titled Missing World Trade Center 9/11 Memorial. For more information, visit <http://www.aiatampabay.com/2004DAWinners.htm>. Crosby and Cowart are currently working on a new competition for the Olympic Landmark in Paris in conjunction with their bid for the 2012 Olympics.

**David Hurlbut** (BS ID 1989) was featured on an HGTV show — Building Character — about people who make other kinds of buildings into residences for his purchase and vision to create a home from an old social club in Selma, Alabama. According to Hurlbut, it wasn't in the best condition, but even though it had sat vacant for about forty years, he still saw the potential to turn it into a historic home. For more information, visit [http://www.hgtv.com/hgtv/shows\\_bdc/episode/0,1806,HGTV\\_9096\\_34971,00.html](http://www.hgtv.com/hgtv/shows_bdc/episode/0,1806,HGTV_9096_34971,00.html).



**Jan Lorenc** (MArch 1944 ) and **Chung Youl Yoo** (BS ID 1987 & MArch 1998 ) of Lorenc+ Yoo Design were included in the Graphic Design USA January 2004 issue entitled "People to Watch in 2004: Insights from the Best and the Brightest." To view the entire article, visit: [http://www.gdusa.com/issue\\_2004/1\\_jan/feature/feat\\_03.php](http://www.gdusa.com/issue_2004/1_jan/feature/feat_03.php).

**Daniel Maas**, (MArch 1998) recently launched ai3 inc., an Atlanta-based architecture and interior design firm with three other partners: Lucy Aiken-Johnson ASID, Joe Remling AIA, and Patrick Johnson AIA. ai3 focuses on specialty commercial, corporate office, retail, restaurant, and residential design. For more information on ai3, visit [www.ai3online.com](http://www.ai3online.com).

**Christopher Rawlins** (BArch 1995) founded his own firm in New York, Rawlins Design Inc., in 2000. Rawlins Design provides comprehensive design, documentation, and construction administration services for all project types. They also provide interior design services, art consultation, and technology assessment services. For more information, visit <http://www.rawlinsdesign.com>.



**Susan Sanders** (MArch 1989) and her partner, Laura Flusche, founded the Institute of Design & Culture (IDC) in Rome, Italy, a not-for-profit organization that provides innovative tours and learning opportunities for visitors to Rome.

For more information, visit [www.idcrome.org](http://www.idcrome.org).

**Mack Scogin** (BArch 1967) and **Merrill Elam** (BArch 1971), principals of Mack Scogin Merrill Elam Architects Inc., won a 2004 AIA Georgia Design Award for their design of the Jean Gray Hargrove Music Library at the University of California, Berkeley, as well as the award for the Bailey HouseStudio in Atlanta. The Hargrove Music Library was also featured on the cover of the December 2004 issue of *Architecture* magazine.

**Anne K. Smith** (BArch 1985), a principal of Lominack Kolman Smith, was awarded the 2004 AIA Georgia Design Award for the design and renovation of the Daniel-Flagg Villas in Savannah, Georgia. The Daniel-Flagg Villas provide permanent homes for up to 20 transient people living with HIV or the AIDS virus. The average residential unit consists of 590 square feet. Maintaining the vintage character, the work included restoration, renovation, and new construction.



# Architecture News

## Gregory Saldana is the 2005 Harrison Design Associates Visiting Scholar

This spring, Gregory Saldana will be the 2005 Harrison Visiting Scholar in historic preservation and adaptive re-use. As this year's visiting scholar, Saldana will teach "Anatomy of Architecture: Methods of Conservation."



Harrison Design Associates endowed the visiting scholar program to broaden students' exposure to traditional design and buildings. In keeping with this intention, Saldana's course will focus on providing students with skills necessary for developing an approach to understanding historic fabric.

Under Saldana's guidance, students will undertake measured drawings and archival research of one of downtown Atlanta's early mini-skyscrapers: the Flat Iron Building. Saldana will draw on both his experience teaching historic preservation coursework and design studios at the University of Miami, as well as his professional experience documenting and conserving national and international historic sites and structures.

Saldana has a BFA and BArch from Rhode Island School of Design, as well as a Master of Science in Historic Preservation from the University of Pennsylvania. He is president of Saldana Design & Preservation Inc. The firm's current projects include: documentation and conservation planning for the Vizcaya Museum & Gardens in Miami, documentation of Henry Flagler's Royal Palm Hotel in Miami, and an adaptive re-use study of the Iglesia de la Compania de Jesus de Quito in Ecuador.

## Lane Duncan Retires



A watercolor by Steve Bock, one of Lane Duncan's students, of Professor Duncan instructing another student in the class.

Lane Duncan retired from the College of Architecture on December 31, 2004, after thirty years of service. Duncan began his teaching career when the College was still the Department of Architecture under the directorship of the late P. M. Heffernan. Over the years, Duncan has taught numerous graduate and undergraduate design studios, seminars on Theories of Aesthetics and Ethics, visual communications studios, and courses on facility planning and structural case studies. He coordinated design studios at all year levels and developed curricula for the fundamental design courses in addition to exhibiting student and professional projects. A range of his projects, including urban libraries, residences, and a visitor and education center, have been recognized nationally and internationally. His personal interests have focused on the presentation of papers, lectures, and published articles on art, mythopoesis, and the cultural imperative in architectural design. He taught in the Paris Program and exhibited his paintings at the

Salon des Independants in Paris. Duncan maintains an ongoing private architectural practice providing design consultation for institutional projects and custom residential design around the country. Currently nearing completion is a private residence in the environmentally sustainable community of Dewees Island, South Carolina.

Duncan's future plans include exhibiting his paintings begun in Paris at the Lagerquist Gallery in Atlanta this spring. Also this spring, he is scheduled to teach an elective watercolor course in the manner of the "grand tour" sketchbooks. After thirty years of teaching, Duncan counts as his most creative work "the inquisitive and dedicated students that I have had the good fortune to educate."

## College Establishes Two New Digital Technology Laboratories

The College of Architecture has begun implementation of two new digital technology laboratories: an AEC Interoperability Laboratory and a Building Technology Laboratory.

"The creation of these two new labs is instrumental in helping to advance the Architecture Program's strategic efforts to bridge the physical and the digital," said Ellen Dunham-Jones, director of the Architecture Program.

The industry-funded AEC Interoperability Laboratory, conceptualized and developed by Chuck Eastman, director of the Ph.D. Program, will support the integration of software systems used throughout the building lifecycle. It will include a variety of 3D parametric modeling design tools; more construction-oriented Building Information Modeling systems; various structural, energy, and lighting analyses; cost estimating and order tracking systems; scheduling; and shop detailing systems. Included is Digital Project, the special version of Catia developed by Gehry Technologies. The purpose of the lab is to explore new working relationships and communication methods that cut across traditional AEC business practices. It is expected to support both industry-related assessments and also education of Georgia Tech graduate students. Eastman is a member of the Gehry Technologies Advisory Board. Thanos Economou, associate professor of Architecture, has been named a fellow with Gehry Technologies to test the use of Digital Project.

The AEC Interoperability Laboratory was made possible in part through a gift from Arol and Jane Wolford. Mr. Wolford is vice chair of the COA Development Council, and Mrs. Wolford is a recent Ph.D. graduate of the College.

The Architecture and Ph.D. Programs have also initiated a Building Technology Laboratory. This lab, developed and supported by Associate Professor Godfried Augenbroe and Assistant Professor Ruchi Choudhary, provides dedicated computing facilities for design analyses including building simulation tools for evaluating a wide range of building performance attributes such as energy, ventilation, solar, lighting, and acoustic analysis. It also supports graduate courses and Ph.D. research on building simulations. The key pedagogical intents of this initiative are to educate graduate students to use explicit means and tools for informing design decisions, to provide an equipped workplace for research, and to support integration of the digital and the analytical within the studio environment. In addition to the new courses within the curriculum (such as Introduction to Computational Fluid Dynamics), the lab will also be used to support comprehensive studios at both the graduate and undergraduate levels.

## Professor Craig Published Study of Bernard Maybeck

Professor Robert M. Craig has published a major study of the work of the late architect Bernard Maybeck, winner of the AIA Gold Medal in 1951. Craig is principal photographer and author of *Bernard Maybeck at Principia College: The Art & Craft of Building* (Salt Lake City: Gibbs Smith, Publisher, 2004) [544 pp, illus.], which brings focus to Maybeck's career and work outside California. The book provides a re-evaluation of the architect's design approach and expressive intentions in his more traditionally styled work, a reassessment presented in the light of a wider range of theoretical influences discussed here for the first time.

## Professor Documents Rebirth of Classic Architecture; Design Firms Return to the Use of Traditional Motifs

In two new books, Associate Professor Elizabeth Dowling (BArch 1971) addresses the revival in traditional and classical forms of architecture among young and emerging professionals, both in the United States and abroad. The books were released in December 2003 and October 2004, respectively. The work of Architecture Alumnus Bill Harrison is featured in both books.

*Timeless Architecture: Homes of Distinction* by Harrison Design Associates, released this past year by Schiffer Publishing Ltd., reintroduces students, historians, architects, designers, and others to the principles of Classic or historic design for the modern home, illustrated with more than 400 color images.

*The New Classicism: The Rebirth of Traditional Architecture*, published by Rizzoli International Publications, looks at a similar trend among five British and nine American architectural firms.

## Inaugural Marvin C. Housworth/KPS Group Lecture

In honor of Marvin C. Housworth's (BArch 1963) retirement from the KPS Group and from the Architecture Program's Professional Advisory Board, G. Gray Plosser, president of KPS, has committed to endowing an annual lecture named in Housworth's honor. Housworth has been an active practitioner in Atlanta, as design director with Rosser FABRAP from 1979-94, then as a partner in Housworth Parker until that firm merged with Gray Plosser in 1997 and became the KPS Group. Avoiding specializing in a single building type, Housworth served as designer on various types of projects, in particular large urban projects and the variety of building types associated with campus work.

The endowed lectures in his honor are intended to supplement the Architecture Program's current lecture series by bringing in practitioners with impressive work in urban and architectural design. The inaugural lecture was held on February 2 and was given by Philip Enquist, principal with SOM Chicago and head of the Urban Design division. Enquist presented the new city plan for Chicago, an exciting and ambitious project, four years in the making, for which he was lead designer. For more information on this lecture series, call 404-894-4053.



# Industrial Design News

## ID Program Receives Accreditation from NASAD

The Industrial Design Program recently underwent its first National Association for Schools in Art and Design (NASAD) accreditation review. As a part of this peer institution evaluation, Professors Craig Vogel from Carnegie Mellon University and Edward Dorsa from Virginia Tech visited the program. The program received complementary remarks from the team and officially received accreditation in May 2004.

“NASAD accreditation is a significant designation verifying the ID Program’s educational quality, institutional integrity, and continued educational improvements,” said Wayne Chung, acting director of the ID Program. “Being accredited allows the ID Program to be officially recognized by the National Office of IDSA (Industrial Designers Society of America), which provides a range of educational support services in the forms of voting rights, school representation, scholarships, student competitions, and various financial discounts to NASAD accredited institutions and their students.”

## Ringholz Uses Universal Design Principles on Cabinetry Project

Developing products for a universal audience challenges designers with new responsibilities. Universally designed products call for designers to design a product that can be used effectively by all people, to the greatest extent possible, without the need for adaptation or specialized design.



To that end, Professor David Ringholz, in conjunction with graduate students Tracey DePoalo, MID [2003], Janna Kimmel [MID Candidate 2005], and Matthew Harrell [MID candidate 2005], developed kitchen and lavatory cabinetry using universal design principles on a grant funded by the Georgia Tech Foundation. The cabinet will function for the general public as well as the elderly, children, and people with disabilities.

“A universal cabinet that is functionally and aesthetically appropriate for all dwelling units, regardless of accessibility designation, would be a tremendous cost and time savings to the developer as well as a dramatic improvement on the overall performance of the environment,” said Ringholz.

In response to an inquiry from a local developer, Ringholz generated early concepts to address this

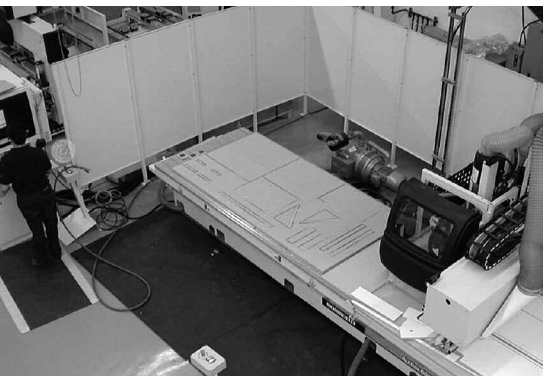
issue in 1999 while at North Carolina State University’s Center for Universal Design. In 2001, Ringholz joined the College of Architecture faculty.

“Once I joined the faculty here at Tech, it quickly became evident that all the right resources were available here to carry out this project,” said Ringholz. “The Center for Assistive Technology and Environmental Access (CATEA) provided guidance on the project, and the Advanced Wood Products Laboratory (AWPL) offered the manufacturing capabilities to complete the cabinetry.”

The design criteria for this project specified that the cabinet should accommodate seated and standing users, which would necessitate flexibility in function and include a height-adjustable work surface and clear floor space beneath. The cabinet must also be priced competitively and require no additional labor to install in order to be adopted by the housing industry.

Other criteria included:

- meet state and federal accessibility requirements without modification
- align with standard product aesthetic in this category
- be compatible with standard cabinet doors
- require no special installation, no special training, and no special tools
- have no removable parts
- have standard base kitchen cabinet dimensions
- be adjustable manually with no motorized components
- be manufactured in a Computer Numerically Controlled (CNC) environment



The project provided an opportunity to make full use of the College’s AWPL CNC machinery. The prototype development was conducted almost exclusively at AWPL, where research staff members Alan Harp and Hector Henry assisted the students with production. Students DePoalo and Harrell each received advanced software training on design for mass production and Computer Aided Design (CAD) for CNC devices.



The project ultimately yielded three identical, fully functional prototypes. One prototype will go to North Carolina State, one will stay here at Tech, and one will be installed in a demonstration house at the Universal Design Alliance.

## ThyssenKrupp Access Partners with CATEA and ID Programs to Develop New Stair Lifts



Industrial Design graduate students are going beyond classroom theory as they develop real-world products for ThyssenKrupp Access, a leading manufacturer of stair lifts, wheelchair lifts, and residential elevators.

The project, a collaboration between ThyssenKrupp Access and Georgia Tech’s Center for Assistive Technology and Environmental Access (CATEA) and the Industrial Design Program, called for students to develop new integrated stair lift systems using universal design principles.

Industrial Design Instructor and CATEA Research Scientist Randy Bernard led the team of graduate students. “My students are the researchers and developers in the project,” said Bernard. “They have developed concepts that are useful as people-movers. The new products have the added benefit of being able to move objects up and down stairs.”

Throughout the project, staff at ThyssenKrupp Access conducted product development dialogues and provided feedback on the concepts. They also provided product background information, application and configuration data, documentation on future concepts, and product demonstrations.

“ThyssenKrupp Access is enthusiastic about this opportunity to align with an entity outside the traditional industry,” said William Koch, president of ThyssenKrupp Access. “With this collaboration, we tap into fresh new perspectives of design elements and co-develop product concepts.”

Koch wanted the product concept(s) to enhance ThyssenKrupp’s current product offerings and create new market opportunities for a new lift category.

To meet Koch’s expectations for a broader market appeal, students used universal design principles. “Universally designed products take into consideration all potential users,” said Bernard. “The projects are successful when each student comes away with a greater understanding of design for people with disabilities as well as the able-bodied population.”

“This collaboration is a strategic fit for ThyssenKrupp Access,” said Koch. “CATEA is an organization that is directly related to universal design concepts and product development, and the graduate students in the Industrial Design Program are among the best. This project gave real-life application validity.”



# City & Regional Planning News

## Keating Provides Guidance to Revise Standards for Comprehensive Planning

Two years ago, the Georgia Department of Community Affairs (DCA) began a process to revise Georgia’s minimum standards for comprehensive planning. Locally prepared comprehensive plans assist local governments in constructing future policies and programs and are comprised of five main elements: economic development, natural and historic resources, community facilities and services, housing, and land use. Working with a task force, DCA recently conducted a thorough reassessment of all the elements of the standards.

DCA also contracted with Professor Larry Keating to advise and provide guidance on developing and implementing a new set of standards for the housing element in these state-mandated local government plans. The goal of the housing element is to ensure that residents of the state have access to adequate and affordable housing. The state has also adopted the objective to give residents access to quality housing, a range of housing sizes and costs, and appropriate density to make it possible for all who work in the community to also live in the community.

The central thrust of Keating’s advice to DCA was the incorporation of new measures of housing needs into the standards. The new standards do not prescribe the types of policies or programs local governments should adopt. Instead, they enumerate the analyses local governments should conduct as a precursor to developing policies. The housing needs portion of the housing element now assesses the extent of cost burdening (paying more than 30 percent of income for housing), the extent of overcrowding (having more than one person per habitable room), and the absence of essential kitchen and bathroom facilities (lacking either a complete bathroom or complete kitchen).

“These indices do not constitute the most comprehensive measures of housing needs, but they either capture or strongly correlate with the most important dimensions of the needs,” said Keating. “The magnitude of the housing problems they identify could absorb and guide local governments’ housing reform energies in both the short and longer term. But, because they do not insist on specific policy responses to the required measures of housing needs, local governments may respond to the analyses however they think best.”

These changes do not mean that exclusionary local governments will immediately begin recruiting affordable housing developers and rid their ordinances of discriminatory stipulations, but they do mean that builders, advocates, supportive service providers, and community development corporations have bureaucratic and legal avenues within which to more effectively promote affordable housing policies and developments.

In subsequent work, Keating contracted with DCA to prepare the empirical measures of housing needs for local governments in the state.

Analyses of some of the socio-economic characteristics of households with needs accompanied the provision of these data to make the points that people who live in less-than-standard housing situations work for a living (or are retired), earn very low wages, have families, live in different types of homes, and are composed of multiple ages and races. In short, except for their low-paying jobs, they are sociologically similar to the rest of the population.

Following the DCA work, Keating prepared the housing element for the City of Atlanta Comprehensive Plan and conducted training workshops on the new standards for local government planners in the ten-county Atlanta region.

“This work reinforces previous decisions by the Atlanta city government to focus housing financial assistance on the lowest income households in the city and has led to consideration of tying more thoughtful, well grounded, and equitable housing policies to discussions by regional planning agencies that disburse or affect the allocation of significant funding for multiple local government functions,” said Keating. “It remains to be seen whether these agencies will incorporate constructive responses to housing needs as factors in decisions regarding funding disbursement, but the fact that the discussions are under way is itself a constructive response.”

## Study Addresses Out-of-Scale Homes

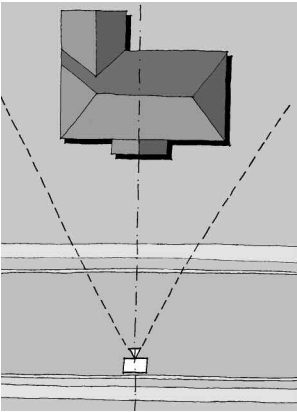
Many metro-Atlanta neighbors have expressed concerns about houses being built in their neighborhood that are “out of scale” with the majority of existing homes. Until now there hasn’t been an accurate way to measure whether or not a residence is out of scale with neighboring homes.

In 2003, the city of Atlanta’s Infill Housing Task Force, created by the Atlanta City Council to examine issues associated with infill housing, contacted the City and Regional Planning Program to seek assistance in addressing this issue. Several questions were raised by the Task Force: Would current zoning regulations control the scale of single-family residential structures? If not, what methods are available (or could be developed) to measure the scale of residential structures? Could these measures be used to develop appropriate control mechanisms in parts of Atlanta?

With these three key questions in mind, two graduate students, Sugie Lee and Steve Schrope, under the guidance of Professors Cheryl Contant and Steve French, began a yearlong research study to define and measure the concept of scale in residential properties.

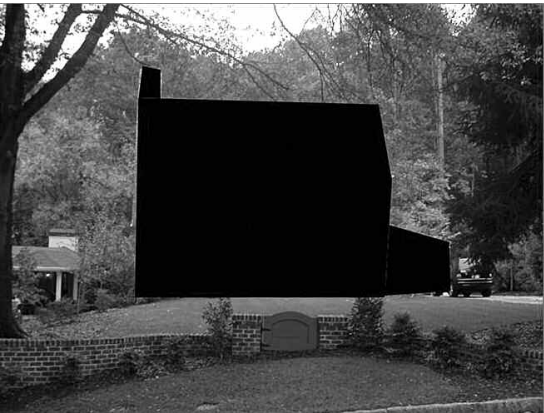
The team conceived of a measurement metric that they named “weighted faceprint.” The weighted faceprint takes into consideration the height of the structure, distance from the street, and mass of the structure. All of these aspects affect one’s visual perception of scale, a term that refers to how big a house appears from the street. The weighted faceprint consists of two components, “faceprint” and “observed building height.”

“We found that the classic footprint or a bird’s eye view didn’t capture scale, so we designed a faceprint to measure a person’s eye view,” said Contant. “This provides us with a measurement of the visual presence of the house.”



Position of camera in relation to house

Since the faceprint is a visual measure, it was developed using a camera. Once a picture was taken, the faceprint was measured to determine the amount of the picture frame occupied by the building using calculations run on a computer with software for computer-assisted design.



Faceprint calculation: area of house (black outline)/area of frame

The second factor in the weighted faceprint was the “observed building height.” Observed building height measures the height of the structure as seen from the street, not the actual height or the definition of height as specified by the zoning code. This was measured using the same photograph and software used for determining the faceprint.



Calculation of Observed Building Height

The weighted faceprint was then determined to represent the perceived impact of the structure on a viewer from the street. The higher the number, the larger the scale. However, the number alone did not represent the relative scale of the house. Since scale is a relative concept, it was based on the relationship between one house and the houses around it. Therefore, to determine the scale of the house, they compared each weighted faceprint result with the weighted faceprint of other houses.

Two Atlanta neighborhoods, one in Morningside and the other in a North Buckhead area, were selected to develop and test this new measure for scale.

While there are some issues that require further study, the study has shown that the weighted faceprint metric developed in the analysis holds promise as a measure of scale.

“With the weighted faceprint, the scale of an entire street or neighborhood can be determined. Then using this number, a protocol can be established so that new houses would have to be within a certain range,” said Contant. “However, the range could increase gradually over time. Every large house added to a neighborhood would raise the average scale, allowing change to occur in an orderly or context-sensitive way.”



# Center for Quality Growth & Regional Development and CATEA News

## CQGRD News

### Ross Named ULI Fellow



Dr. Catherine Ross, Harry West Distinguished Chair and a professor in the City and Regional Planning program, has been named an Urban Land Institute fellow, one of twenty-four in the United States and Europe.

As part of her fellowship, Ross will serve on ULI's

Sustainable Development Council, which affords her the opportunity to sit in closed-door meetings with fifty to sixty leading professionals in the field. The council focuses on environmentally responsible development, including brownfields re-use, conservation development, strategic alliances for entitling and financing environmentally sensitive development, and sharing best practices.

Ross met with other ULI fellows in November during ULI's annual meeting in New York. ULI is a nonprofit research and education organization with more than 22,000 members worldwide representing the spectrum of land use and real estate development disciplines. Its mission is to provide responsible leadership in the use of land to enhance the total environment.

### Officials and Staff Gather for Quality Growth Workshop

In November the Center for Quality Growth & Regional Development brought together ninety elected officials and key staff members from local governments throughout Georgia for a workshop titled "Governments & Growth: How to Cope Successfully." In plenary sessions and breakout groups during the two-and-one-half-day event, participants discussed transportation, land development, legal issues, public engagement, and revenue issues to promote quality growth. In addition, consultants led by the Georgia Department of Community Affairs worked in real time to produce recommendations for three communities in Georgia.

The workshop, held at the Global Learning and Conference Center, was co-sponsored by the ULI-Atlanta; Association County Commissioners of Georgia; Georgia Municipal Association; Georgia Department of Community Affairs; Georgia Power; Wachovia Bank; Alston & Bird; and Jordon, Jones, & Goulding.

### CQGRD Completes Quality Growth Study of Hall County



The city of Lula, in northern Hall County, has an historic downtown facing the railroad.



A visualization of a different future for this area.



Lake Lanier, in Hall County, was the site of the 1996 Olympic rowing venue.



Modifying parking arrangements could create attractive views of the lake and new public spaces.

Hall County, located forty miles north of Atlanta, is experiencing unprecedented growth due to its proximity to the metropolitan area, the recreational opportunities afforded by Lake Lanier, the availability of moderately priced housing, and its transportation infrastructure. To help Hall County's leaders and citizens respond to the challenges posed by growth, CQGRD studied Hall County's transportation, green infrastructure, and livability opportunities. The Center's findings and recommendations will help the county improve quality of life, preserve the environmental and cultural character, and strengthen the local economy.

The study was part of a multifaceted effort led by Georgia Tech's Economic Development Institute, which explored the county's tourism potential and other economic development strategies.

### Context-Sensitive Design Symposium Wins Award

The Center for Quality Growth and Regional Development received the Golden Shoe Award for Pedestrian-Friendly Education at a ceremony in August. For the past five years, Pedestrians Educating Drivers on Safety (PEDS) has presented Golden Shoe Awards to people, projects, and agencies that contribute toward making metro Atlanta safer and more accessible to pedestrians. PEDS is a member-based advocacy organization dedicated to making metro Atlanta safe and accessible for all pedestrians.

"The Center is honored to have received the Golden Shoe Award," Center Director Catherine Ross said. "We are all pedestrians, and increasing the safety and walkability of our neighborhoods and cities is vitally important to our health and the overall quality of our living environment."

The Center was praised by PEDS officials for holding a May symposium on context-sensitive design (CSD).

The proceedings of the CSD Symposium are available on the CQGRD Web site, [www.coa.gatech.edu/cqgrd](http://www.coa.gatech.edu/cqgrd). The symposium was co-sponsored by the Georgia Department of Transportation, MARTA, the Federal Highway Administration, the Association County Commissioners of Georgia, the Georgia Municipal Association, the Atlanta Regional Commission, and the Urban Land Institute-Atlanta.

### Sundquist Appointed to Decatur Planning Commission

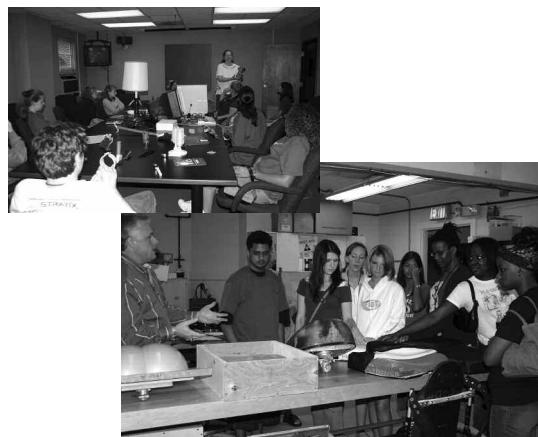


Eric Sundquist, research scientist at CQGRD and Ph.D. student, has been appointed to the Decatur Planning Commission. He will serve a three-year term as one of seven members of the commission. The Planning Commission reviews develop-

ment projects that require exceptions to Decatur's zoning and urban design standards. This year, it will also supervise the decennial revision of the city's comprehensive plan.

## CATEA News

### Scholars Program Visits CATEA



Approximately thirty-five high school juniors and seniors from around the country attending Brenau University's Firespark Medical Scholars Program visited CATEA last summer. The Firespark Program introduces students to the various opportunities available in the medical field. During the visit to CATEA, the students were given a hands-on demonstration of assistive technology devices and learned how wheelchair cushions are evaluated for various product characteristics. Volunteers from the group assisted with a demonstration of pressure mapping technology, which is used by clinicians to select the most appropriate cushion for wheelchair users.

### Saudi Delegation Visits CATEA

A six-member delegation from Saudi Arabia visited CATEA last summer to exchange information about activities in disability policy, research, and assistive technology. The delegation represented the Disabled Children's Association in Jeddah.





# Building Construction and Ph.D. News

## Building Construction News

### IFMA Recognizes Integrated Facility and Property Management Program



IFMA President Dave Brady, BC Professor Kathy Roper, and IFMA Chair Matt Dawson

The College of Architecture's Integrated Facility and Property Management Graduate Program received a unanimous vote of approval to become an International Facility Management Association (IFMA) Recognized Program. Georgia Tech's program is only the second graduate program in the United States to receive the Recognized Program status, and third in the world (with Cornell and Hong Kong Polytechnic) to receive graduate program recognition.

"IFMA is the premiere organization for workplace professionals, supporting the largest community in the industry throughout fifty-four countries," said Professor Kathy Roper. "We are very proud of the Integrated Facility Management Program here at Tech and are honored to receive this international recognition."

### Undergraduate Building Construction Program Receives International Recognition from RICS

The Undergraduate Building Construction (BC) Program received accreditation from the Royal Institution of Chartered Surveyors (RICS) in May. The program is also accredited by the American Council of Construction Education (ACCE). RICS accreditation broadens the program's recognition by offering a way to collaborate on an international level in research, exchange of faculty and students, and participation in international conferences.

"The RICS accreditation will allow us to actively participate at an international level, collaborate with other European universities on research, and benchmark our program with other international universities," said Roozbeh Kangari, director of the BC program. "With this alliance, we will be able to bring innovative ideas on sustainability, concrete technology, and other types of research back to our classroom."

RICS is a leading source of international land, property, construction, and related environmental knowledge and supports 110,000 members worldwide. The goal of RICS is to promote best practice, represent consumers' interests, and provide impartial advice to society, businesses, governments, and global organizations.

### 2004 Summer Program in Paris

Ten students participated in the first full-time Building Construction Summer Program in Paris this year. The students stayed on the Cite' University of Paris campus and took twelve credit hours. They visited construction companies, architecture firms, and government sites.

"I'll never have an opportunity like this again to see some of the most amazing landmarks in the world in one trip and on such a low budget," said Katherine Davis, Student Construction Association president (BC Spring 2005). "This trip supplied me with an amazing advantage. I've gained such a vast cultural knowledge through visiting companies, countries, and cafes."

For Summer 2005, twenty students have registered to take part in this exciting new program.



## Ph.D. News

### Ph.D. Program and The LaiserinLetter™ to Co-sponsor Conference on Building Information Modeling

The construction industry is beginning to actively utilize multidimensional, data-rich models and other digital technologies for project design, documentation, and delivery. The proposed benefits include improved coordination, quality and cost control, faster development process, and other efficiencies. To address the important technological, organizational, and procedural issues surrounding adoption of these technologies, the Ph.D. Program has teamed with the LaiserinLetter™, edited by architect and industry analyst Jerry Laiserin, to host a conference titled "Building Information Modeling: Opportunities, Challenges, Processes, Deployment." The conference will be held April 19-20, 2005, at Georgia Tech's Global Learning and Conference Center. Directed toward building owners, architects, engineers, and contractors, the conference will provide extensive background on the relevant technologies, demonstrations, and assessment of existing products; review of integrating and supportive technologies; and methods of assessment and planning for using building information modeling in a project or office.

More information is available from Mercedes Saghini by e-mail at mercedes.saghini@coa.gatech.edu or by phone at 404-894-3476

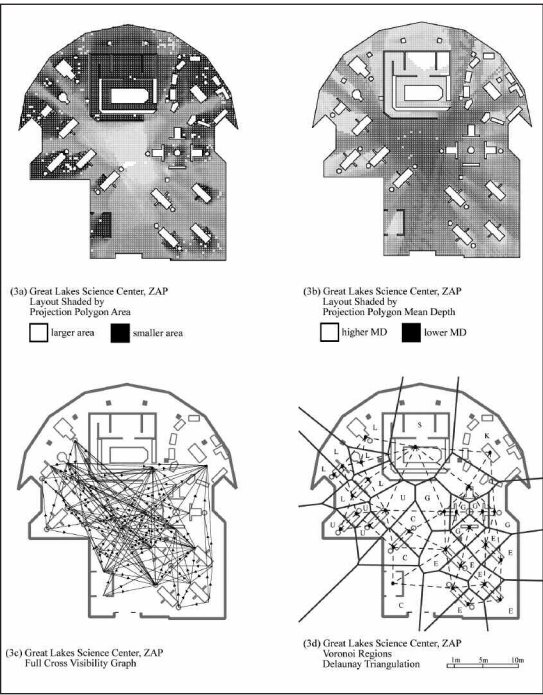
### Program Team Studies How Space Affects Visitors in Museum Environments

Museums have always played an important role in the cultural and intellectual life of nations. Some museums may focus on culture, such as the High Museum of Art in Atlanta and the Tate Gallery in London, while others may stress the importance of science or industry, such as the Natural History Museum in New York, and the Victoria and Albert Museum in London. Educating visitors has increasingly become an important mission for museums. A team of researchers at Georgia Tech, led by Dr. John Peponis, has collaborated with a team of

researchers at the University of Michigan, led by Dr. Jean Wineman, to model how layout affects the manner in which visitors explore exhibition spaces and engage individual exhibits. Their work makes an important contribution to museum studies. Previously the focus of research was on how to improve individual exhibits; now it becomes possible to assess the layout of exhibitions as well in order to improve overall design.

Studies show that layouts influence visitor behaviors in subtle ways, even when there is no attempt to direct visitor paths or frame views. More specifically, measures of accessibility predict the degree to which visitors will become aware of single exhibits, while measures of visibility predict the degree to which they will actively engage with them. Further, the movement choices that visitors make are influenced by the extent to which exhibits are manifestly grouped into thematic units according to color, adjacency, or other architectural devices.

These results were obtained by studying two traveling science exhibitions from the Carnegie Science Center. One exhibition was devoted to advanced surgery technologies (ZAP! surgery) and the other to robotics. The exhibitions were studied in different settings and host institutions to determine the effects of alternative layouts. The locations were: the Great Lakes Science Center in Cleveland, the Tech in San Diego, and the Carnegie Science Center in Pittsburgh. The project was funded by a National Science Foundation grant (through the Informal Science Education Program). The findings are reported in Peponis J., Conroy-Dalton R., Wineman J., Dalton N., 2004, "Measuring the Effects of Layout upon Visitors' Spatial Behaviors in Open-Plan Exhibition Settings," Environment and Planning (B): Planning and Design 31, 253-273.





# AWPL and Music News

## Advanced Wood Products Laboratory (AWPL) News

### American Woodmark Joins AWPL's Advisory Board as Charter Member



(From left to right) Jeff Rice, Plant Manager, American Woodmark; Jim Keane, Human Resources Manager, American Woodmark; Karl Brohammer, Director, AWPL; David Spradley, Plant Engineer, American Woodmark; Chris Kessler, Plant Manager, American Woodmark; and Tom Galloway, Dean, College of Architecture

American Woodmark Corp.'s Eastanollee and Jackson, Georgia, manufacturing plants recently joined AWPL's Advisory Board as a charter member. American Woodmark is among the largest producers of kitchen and bath cabinetry in the United States.

The AWPL Advisory Board consists of key Georgia industry leaders, as well as government and academic collaborators, and provides guidance to the AWPL management team in setting direction and establishing priorities as part of the development of the lab's strategic plan.

### AWPL Named 2004 Educator of the Year by WMIA

AWPL received top honors at the Woodworking Machinery Industry Association (WMIA) 2004 Innovator, Educator, and Global Marketer of the Year Awards in October at the organization's annual awards dinner honoring woodworking industry leaders.

"The purpose of these awards is to acknowledge excellence within the woodworking industry, the outstanding achievements of woodworking companies, and educational institutions," said WMIA President Scott Twitchell.

**The 2004 award winners are:**  
**Educator of the Year, Georgia Tech - College of Architecture - Advanced Wood Products Laboratory (Atlanta)**  
**Innovator of the Year, Premier EuroCase (Denver)**  
**Global Marketer of the Year, Loti Corp. (Tualatin, Oregon)**

AWPL Director Karl Brohammer accepted the award. "We are most honored to have been selected for this prestigious industry award," said Brohammer.



WMIA is a Baltimore-based association comprising companies, partnerships, and individuals whose primary business is providing the North American market with the latest woodworking technology, equipment, computer software, and distribution service channels available globally. For more information on WMIA, visit [www.mia.org](http://www.mia.org). For more information on AWPL, visit [www.awpl.org](http://www.awpl.org).

### Furniture from AWPL ID Class Featured at Museum of Design Atlanta

Ten Industrial Design students (Alejandra Garcia-Castro, AnnElla Gordon, Matthew Harrell, Jamila Hinds, Martin Jacobson, Caroline Kelly, Jason Quick, Mark Musheno, Jenny Rutledge, and Kevin Shankwiler) in Alan Harp's Introductory Furniture Design & Manufacturing class were given four weeks to design and fabricate a usable piece of furniture that could be broken down into smaller parts for shipping. The materials for the project were limited to one 48"x 96" piece of plywood, knock-down fasteners, and hardware. The students were also required to use the state-of-the-art Computer Numerically Controlled (CNC) equipment at AWPL.

Select projects from the class were featured at an exhibition titled "Behind the Big Green Button: Digital Furniture Design Revealed," at the Museum of Design Atlanta from January 13 through February 5.

"This was an extraordinary opportunity for the students to gain exposure for their work and to interact with design professionals in a non-scholastic setting," said Harp.

"Having my project on exhibit was a great honor," said Matthew Harrell. "It was a good experience to see how people reacted to my designs."

Some of the projects will be entered into the AWFS Student Design Competition held in Las Vegas in July.



## Music News

### Music Technology Group Creates Music Using Machines and Innovative Technology

Can machines be responsive, surprising, and sensitive musicians? Students and faculty from the Music Technology Group, under the direction of Gil Weinberg, explored answers to this question and presented a snapshot of those possibilities using machines in an inspirational way at a concert called "Listening Machines" in January at the Eyedrum.

This fascinating program included a variety of works using sonification, a robotic drummer, audio-visual compositions, and innovative recording feedback devices.



Travis Thatcher (CS senior) operates "BrainWaves," a neuron activity sonification installation, while visitors generate neuron spikes, striking the eight interactive stations designed by Clint Cope (ID graduate student) and Mark Geodfrey (ECE senior).



Travis Thatcher plays his free jazz composition Freemorph for saxophone, drummer, and computer.



Gil Weinberg and Scott Driscol play "Pow," a composition for two human players and a robotic percussionist.



Scott Driscol (ME graduate student) explains to interested visitors how Haile, the robotic percussionist, works.



Scott Driscol (beatbug), Gil Weinberg (piano), Alex Hornbake (bass), and Chris Moore (drums) play "iltur," an interactive jazz composition by Gil Weinberg.



"BrainWaves" - Sonification and visualization of signals from cultured neurons - A collaboration between the Music Technology Group and the Potter Group at the Laboratory of Neuroengineering.



# Architecture Program

## Lecture and Film Series

### SPRING 2005 LECTURES

All lectures are at 5:00 p.m. in the COA Auditorium unless otherwise noted. Free parking is available in the parking lot. AIA Learning Units are available.

For more information, call 404-894-4053.

- |   |   |
|---|---|
| March 9   | <b>An American Perspective on Sustainability</b><br>MAHADEV RAMAN<br>Principal and Building Sector Leader, Ove Arup & Partners Consulting Engineers, New York |
| March 16  | <b>Personal Journeys to New Classicism</b><br>ELIZABETH DOWLING<br>Associate Professor of Architecture, Georgia Tech  |
| March 30  | <b>Nine Documentaries</b><br>GREGORY SALDANA<br>Harrison Design Associates Visiting Scholar, Georgia Tech   |
| April 6   | <b>Architecture of Luis Barragan</b><br>GREGORIO LUKE<br>Director, Museum of Latin American Art, California   |
| April 6<br>7:00 p.m.<br>at the Ferst Center<br>for the Arts | <b>Smart Codes</b><br>ANDRES DUANY<br>Duany Plater-Zyberk Architects, Miami   |

### REEL ARCHITECTURE SPRING 2005 FILM SERIES

All showings are held Thursday nights at 6:00 p.m. in the Architecture Auditorium, room 123.

For more information, contact Franca Trubiano at [franca.trubiano@arch.gatech.edu](mailto:franca.trubiano@arch.gatech.edu).

- |          |   |
|----------|---|
| March 3  | <b>The Piano (1993)</b><br>Jane Campion     |
| March 10 | <b>Brazil (1985)</b><br>Terry Gilliam       |
| March 17 | <b>Alphaville (1965)</b><br>Jean Luc Godard |
| March 31 | <b>Adaptation (2003)</b><br>Spike Jonze     |
| April 7  | <b>Marnie (1964)</b><br>Alfred Hitchcock    |
| April 14 | <b>Metropolis (1927)</b><br>Fritz Lang      |



Georgia Institute of Technology  
Office of the Dean  
Atlanta, Georgia 30332-0155

#### Programs

- Architecture
- Arts and Technology/Music
- Building Construction
- City and Regional Planning
- Continuing Education
- Industrial Design
- Ph.D. Program

#### Research Centers

- Advanced Wood Products Laboratory
- Center for Assistive Technology and Environmental Access
- Center for Geographic Information Systems
- Center for Quality Growth and Regional Development
- Construction Resource Center
- IMAGINE Lab

[www.coa.gatech.edu](http://www.coa.gatech.edu)

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