Messages from mom

Short documentary by journalism professor to be screened at Sundance Film Festival

By Melissa Mitchell
News Bureau Staff Writer

U l journalism professor and filmmaker Jay Rosenstein didn’t know why he couldn’t bring himself to delete the rambling, sometimes incoherent messages his mother left on his home Voicemail system.

“What happens with Voicemail at home,” Rosenstein said, “is every 15 days they ask you, ’Do you want to erase this message?’ And I kept resaving and resaving them. We finally disconnected the system. So if I wanted them, I would have to dump them to tape, because they were going to be lost forever. I decided to do that.”

But Rosenstein didn’t just save the messages. He eventually used them as the foundation for a short documentary film. The film, “Erased,” presents a poignant picture of Rosenstein’s aging mother as she and those close to her are affected by her deteriorating mental capacity, brought on by dementia.

The film has just earned Rosenstein one of the most coveted forms of recognition among filmmakers: a screening at the 2001 Sundance Film Festival. The internationally renowned festival, founded by actor Robert Redford, runs from Jan. 18-28 in Park City, Utah, and is regarded as America’s premiere showcase for independently produced documentary and dramatic films. Each year, members of Sundance Institute’s programming staff view more than 3,000 submissions and select about 100 feature-length and documentary films and 60 shorts for exhibition at the festival.

Study takes close look at how teens and young adults share secrets

By Andrea Lynn
News Bureau Staff Writer

A new study finds that the secrets teens and young adults tell are remarkably similar—regardless of the family structure in which they live: original, single-parent or “blended.”

Contrary to popular belief and fairy tales, which see blended and single-parent families as significantly different from, even inferior to, original families, researchers have found that for at least one form of family communication—secrets—there’s very little difference between these family structures.

So says John P. Caughlin, a professor of speech communication at the UI, and lead investigator in the study of intrafamily secrets. It is the first such study to demonstrate in a systematic manner that there are no big differences between the family groupings in terms of this one important communication process. “Our study looked hard for differences in secret keeping, and didn’t find many,” Caughlin said. The findings will be seen as special tuitions.

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For Faculty and Staff, University of Illinois at Urbana-Champaign

Messages from mom

Lasting legacy

In a recently published book, UI architecture scholar Sharon Irish was the first to offer a comprehensive profile of American architect Cass Gilbert.

Thanks a million

For the first time, this campus raises more than $1,000,000 for the Campus Charitable Fund Drive.

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In the beginning, people were laughing out loud. They thought it was really funny. And then, sort of one by one … it’s getting a little quieter … and a little quieter. Then at the end, it’s total silence. Some people came up [afterward] and apologized for laughing. And I said, ‘No, that was a wonderful reaction.’

SEE SUNDANCE, PAGE 12

Special tuition increase proposed only for new students

A special tuition increase for new UI students will result in improved student services and programs, enhanced educational technology and expanded enrollment in key high demand courses and disciplines, university leaders announced last month.

The increase of $500 per year for each of two years at the Urbana-Champaign and Chicago campuses will provide specific benefits to the new students who pay it. The higher tuition begins in fall 2001 for freshmen and other first-time students only, pending approval by the Board of Trustees. (See accompanying charts.) Additional financial aid will offset the higher costs for students and parents least able to pay.

SEE TUITION, PAGE 2
Tuition, continued from page 1

Current students will see their tuition rates climb by 5 percent at Urbana-Champaign and 3 percent at the Chicago campus next fall.

"High quality costs money, and our newest students will directly benefit from the new programs and systems we will put in place during the next several years," said UI President James J. Stukel.

"For a decade we have held the line on tuition increases," Stukel said. "Tuition increases at Urbana-Champaign have been among the lowest of Big Ten universities, and UIC’s tuition increases have been near the bottom of the IBHE [Illinois Board of Higher Education] peer group," he continued.

The new tuition increase applies only to new students because they will be the primary beneficiaries of the educational program and service improvements, said Chester S. Gardner, interim vice president for academic affairs. Students entering the Urbana-Champaign and Chicago campuses for the first time in Fall 2003 will pay an additional $500 in tuition for that year. In Fall 2001, a second increase of $500 would be charged for the first time in Fall 2001 would pay an additional $500 in tuition for that year. In Fall 2002, a second increase of $500 would be charged.

"The special tuition will allow the primary beneficiaries of the educational program and service improvements, said Gardner. "Some of these benefits will be truly remarkable, while others will be both welcome and expected of a top quality university," he said.

Stu dents currently enrolled will not pay the special increase because they and their parents have not had the opportunity to plan for increases of this magnitude, and because these students will not directly benefit from most of the improvements, he said.

Gardner noted that the UI received nearly $1,200 less in state tax support per student during the current fiscal year (FY2000) than it did 20 years ago, since inflation and enrollment changes are factored in. "Tuition increases in the last two decades have not overcome this loss of state support," he said. "We need to close the gap.

"We provide our students the knowledge they need to prepare for leadership roles in the state’s businesses, government, educational system and many other fields," said Michael Aiken, chancellor of the Urbana-Champaign campus. "To ensure our students receive the best education a nationally ranked university can provide, it is essential that we continue to enhance the learning experience offered here."

Students at all three University of Illinois campuses (including Springfield) will also benefit from a series of student-system improvements designed to radically upgrade admissions, registration, financial aid, course scheduling and academic record-tracking.

Students will be able to:

- Add or drop courses, check tuition and other charges, check financial aid and print schedules, all online;
- View and print grade reports, request transcripts and account balances and make a series of transactions any time of day or night.

"Once the new tuition program is fully in place, it will be easier for students to register for the courses they want and it will be more likely they will have the courses they need," Stukel said. "Libraries, advising and study abroad will be more accessible, and the Internet will be the convenient way to provide both existing and new services at any hour."

Uses for additional revenues at Urbana-Champaign ($23 million per year by the fourth year of implementation)

- Expand course offerings in fields of high demand, including information technology, business, arts, humanities and social sciences;
- Improve library services increasing hours, expanding group study spaces and increasing online access to library collections;
- Improve academic advising across colleges by expanding advising staff and adding Web-based status information;
- Expand the number of living/learning communities to serve additional students;
- Expand career advising to all undergraduates;
- Increase "capstone" research and small group experiences for upper-class students;
- Expand access to and improve study abroad programs.

Robert Vickrey
appointed as trustee

By Craig Chamberlain
News Bureau Staff Writer

Robert Vickrey of Peru, Ill., was appointed Jan. 4 by Gov. George H. Ryan to serve a six-year term on the UI Board of Trustees.

Vickrey, a Republican, replaces Judith Reese, a Chicago Republican who had served two terms on the board. Reese was first elected as a trustee in 1988 and then re-elected in 1994, prior to legislation that shifted the trustees from elected to appointed posts.

Vickrey, 56, is vice president of legislative affairs and economic development for Miller Group Media. The company produces several publications, among them Illinois Agri-News and the News-Tribune in LaSalle, and also owns three radio stations.

The appointment to the UI board comes a year after Vickrey resigned as chairman of Illinois Gaming Board. He had served on the board since 1992 and was appointed as its chair in 1999.

Vickrey plans to attend this week’s board meeting in Chicago. ❚

Pending board approval, six selected to receive honorary degrees at spring Commencement

Six people have been selected to receive honorary degrees at spring Commencement, pending approval by the UI Board of Trustees at its meeting Jan. 18 in Chicago.

The 130th Commencement takes place May 13 at Assembly Hall. The recipients:

Robben Fleming will receive a doctor of university administration degree.

Fleming served as the director of the Institute of Labor and Industrial Relations at the UI at Urbana-Champaign from 1952-58 as well as a professor of law at the UI from 1957-64.

Fleming later served as chancellor of the University of Wisconsin at Madison from 1964-68 and then as president of the University of Michigan from 1968-79. His most visible role began in 1979 when he left Michigan to become the president of the Corporation of Public Broadcasting.

He also has served as president of the American Association of University Presidents, chairman of the Board of the American Council on Education, and chairman of the Board of the Carnegie Fund for the Advancement of Teaching.

Lukas Foss, a professor of music theory and composition at Boston University, will receive an honorary doctor of music degree.

A distinguished composer, conductor, pianist and pedagogue, he has been a major influence on musical life in America for more than 50 years. He attended the Curtis Institute after auditioning for conductor Fritz Reiner, graduating with honors and diplomas in composition, conducting, and piano at the age of 17. By age 20, he had won a Pulitzer Scholarship; at 22, was honored with the New York Critics’ Circle Award; and at 23, was the youngest composer ever to receive a Guggenheim Fellowship.

Foss has composed in virtually every area of music and has been commissioned by major musical SEE HONORARY DEGREES, Page 3

Inside Illinois

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Visit us at www.news.uiuc.edu/ or through the UI home page: www.uiuc.edu

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While all students benefit from this special tuition program, it preserves access to our neediest students by sharply increasing financial aid, Stukel said. "In recent years state taxpayers, alumni and other donors and the federal government have all shouldered greater responsibility for funding the UI. Now we need our newest students and their parents to increase their share."
Inside

On the job

Bill Cearlock

Tell me about the hotel and guest rooms. Lots of people call up and say, ‘I didn’t know you had a hotel there.’ ‘Are the rooms all right?’ ‘Are they nice?’ Actually, they’re better than a lot of hotels in the area. Some hotels are sort of plastic looking. The rooms all look the same. But ours have character; they’re a little richer. There’s a lot of wood and a kind of colonial-style wallpaper. Our maids are really nice ladies. They’re concerned about the guests and they take care of any special requests that they can help the guests with. And they’re friendly. We don’t have a big turnover. Our staff has been here for years.

Where are the guest rooms in the Union? The rooms are on the third and fourth floors of the south wing. Originally there were 14 rooms in the north wing. In the ’60s when they built the south wing, they added 76 rooms there. So many of them have views of the Quad. The North wing rooms were converted to meeting rooms in the ’80s.

What are the busiest times of the year? Recruiting season in the fall. We have corporate recruiters come on campus in September, October and a little into November to recruit students. Then we keep our rooms booked. Why do you think that is? We can’t advertise as extensively as the private sector does. We’re not a private company. We are part of the university, but the money that’s made here goes to help the Union provide many of its free programs and services for the students. The money goes back to the students themselves in a sense.

Do the students use the guest rooms much? Yes. Before school starts, I think we have two to three weeks when we offer special rates to new international students. They’re coming to campus from around the world, and they need to get here before classes start to find a place to live. And we have a lot of them take advantage of that. And we have Finals Week study specials that we also offer to the students. So often students find that the dorms are so noisy that they can’t study, so they can stay in a guest room at a special student rate. A lot of them will study down in the lounges and then go up to their room. We also offer them a snack pack with little goodies.

Do you have a lot of regular customers? Some of our football people have been coming here for years and years. We also have the UI Board of Trustees. They’re a nice group of people. They’re really friendly and easy to work with.

Do you frequently have celebrities stay here? David Hartman was just here. The governor’s come here quite a bit. All the people we have found a new friend. Write and read English. So if you can write notes, it’s interesting. Since we are the campus we also have international guests. That’s challenging to commu- nicate with them sometimes. But I’ve learned that most of all, if they can’t speak English can write and read English. So if you can write notes, you have found a new friend.

— Interview by Becky Malby

HONORARY DEGREES, CONTINUED FROM PAGE 2

organizations worldwide. He has appeared as a solo pianist with such orchestras as the New York Philharmonic and the Pittsburgh Symphony.

Ekaterina Genieva, the director general of the Library for Foreign Literature in Moscow and a Mortenson Distinguished Lecturer at the UI, will receive an honorary doctor of letters degree. Since the dissolution of the Soviet Union, Genieva emerged as the director of the most active library in Russia, and as a leader of cultural reform in the country. She is president of the Soros Foundation in Russia. Under her leadership it has distributed hundreds of millions of dollars to support science, education, the arts and culture, and civil society initiatives. She has served as first vice president of the International Federation of Library Associations and Institutions. Genieva has been instrumental in opening access to research resources for students and scholars from the UI and other institutions throughout the United States and the world. She has a strong UI connection through her collaboration with professor Marianna Tax Choldin, the director of the Mortenson Center for International Library Programs.

Vartan Gregorian, the president of the Carnegie Corp., will receive an honorary doctor of humane letters degree. A former president of Brown University, Gregorian was for eight years the president and chief executive of the New York Public Library. His leadership of the library was seen as visionary and his fund-raising brought the library to a significant new stage of operation. He has held numerous academic appointments, teaching fellowships, and professional affiliations. His background is in Armenian history and culture. Gregorian is the recipient of an Eleanor Roosevelt Val-Kill Medal (1999) and his international decorations include the Grand Officio da Ordem do Infante D. Henrique (Portugal, 1995), the Officier de l’Ordre des Arts et Lettres (France, 1986), and the Cavaliere Ufficiale dell’Ordine Al Merito della Repubblica (Italy, 1986), among others. Gregorian is a member of the editorial boards of a number of prestigious publishing houses and journals.

Judith Heumann, assistant secretary for the Office of Special Education and Rehabilitative Services in the U.S. Department of Education, will receive an honorary doctor of public administration degree. Heumann helped found several important disability organizations, including the World Institute on Disability and the Coalition of Citizens with Disabilities, and has worked to develop international linkages in disability research and advocacy. She pioneered modern legislation recognizing that the U.S. Constitution guarantees equality of access and opportunity to persons with disabilities. As legislative assistant to the chairperson of the Senate Committee on Labor and Public Welfare in 1974, she helped develop legislation that became the Individuals with Disabilities Education Act. President Clinton appointed her to the U.S. delegation to the Fourth United Nations World Conference on Women in Beijing.

Orlin Samuelson, agricultural services director of WGN radio and television in Chicago, will receive an honorary doctor of letters degree. Samuelson was referred to as a “farm broadcasting institution” in 1996 when he was inducted into the Chicago Journalism Hall of Fame. He has distinguished himself as the premier agricultural broadcaster in the nation and in the food agriculture system, and has served as an effective communicator on behalf of agriculture to the non-farm audience. Samuelson has been invited to participate in official government missions on both the state and federal level. He has served as the director of the Chicago Board of Trade, a Trustee of the Farm Foundation and as president of the National Association of Farm Broadcasters. Often referred to as the “Voice of Agriculture,” Samuelson started his broadcast career in Sparta, Wis., in 1952 and moved to Chicago in 1960 to become agricultural services director for WGN. In 1975, Mr. Samuelson was elected a vice president of WGN.
What we have shown is that the muscle side dynamics of the interaction on the post-biology and neuroscience program. “The muscle side was just sitting there very passively,” said Akira Chiba, a professor in the UI department of cell and structural biology. “The axons were doing all the searching, and myopodia were the reaching, seeking fingers of axons, called filopodia. When axons connect with target cells, synapses form—a pivotal brain development stage that allows for such things as muscle coordination, learning and memory. The outward reaching filopodia, have been thought to be the driving force for these connections. However, a new view is emerging at the UI.

Using a scanning electron microscope and green fluorescent protein (GFP) to coat target cells, in this case live cell muscle membranes from Drosophila, UI researchers detected similar axons like fingers. Filopodia extending from axons—the communicating arms of neurons—are well documented and thought to be the reaching, seeking fingers that latch on to the receptors of target cells such as muscles. In the October issue of Nature Neuroscience, the UI scientists documented their findings, which have attracted growing interest from neuroscientists learning of the work at professional meetings.

“The idea has been that pre-synaptic axons were doing all the searching, and muscles were just sitting there very passively,” said Akira Chiba, a professor in the UI department of cell and structural biology and neuroscience program. “The dynamics of the interaction on the postsynaptic side has been poorly documented. What we have shown is that the muscle side has long processes just like axons, if not more. They are dynamic, long and numerous.”

To differentiate the newly found thread-like processes of muscles from the neuronal filopodia, Chiba and co-authors Sarah Ritzenthaler, a UI doctoral student, and Emako Suzuki of the University of Tokyo, have labeled them myopodia. “The myopodia are there, and they are very dynamic,” said Ritzenthaler, who has presented the work at several meetings. “They are just like neuronal filopodia in their activity and in their cellular components.”

“This research has changed my own bias and that of probably many other people with regard to what is happening where and when in synaptogenesis,” Chiba said. “So far, we are raising the status of the activity on the postsynaptic side to essentially the same level as that of the presynaptic side.”

The genetically engineered GFP allowed researchers to coat the membranes of both live axons and live muscle cells without destroying them. The technique, Chiba said, allowed microscopes to zoom in on the difficult-to-capture interaction of axons communicating in the central nervous system. Time-lapse photography clearly showed the myopodia, only in the presence of axons, appearing to cluster to the filopodia, as if building a life line to a ship at sea. During this interaction, Chiba said, the two sides are matchmaking, realizing their compatibility. “If this interaction does not occur properly, there is no synapse,” he said. “Muscle does not become connected with the brain.”

Fabrication process Ralph Nuzzo, a professor of chemistry and of materials science and engineering, and colleagues fabricated silicon thin-film transistors using soft lithographic block-printing techniques and polymer inks in place of photolithography.

Soft lithography used to fabricate transistors on curved substrates

By James E. Kloeppel
News Bureau Staff Writer

Researchers at the UI have fabricated silicon thin-film transistors—critical components of numerous sensor and display technologies—using soft lithographic block-printing techniques and polymer inks in place of photolithography.

“Conventional photolithography works great for many applications—such as cramming a lot of information into small amounts of silicon real estate,” said Ralph Nuzzo, a UI professor of chemistry and of materials science and engineering. “The desire for new patterning processes is being driven by the need to fabricate components over large formats and to use unconventional materials.” Because soft lithography is compliant, the patterning process can conform to small surface irregularities, flexible substrates and three-dimensionally curved surfaces. Possessing the advantages of block printing, the patterning technique can be used in applications where photolithography cannot.

“Thin-film transistor arrays deposited on spherically curved substrates could be used in optical detectors to take pictures over a very wide field of view,” said John Abelson, a UI professor of materials science and engineering. “The human eye, for comparison, focuses images on a nearly spherically curved retina that neatly accommodates the relatively simple optics of the eye’s lens.”

Soft lithographic patterning techniques—such as micron-scale polymer molding—on curved substrates do present special challenges, Nuzzo said. “For example, the mold must be flexible enough to conform to the curvature of the substrate, yet stiff enough to preserve the integrity of the pattern.”

To test the general effectiveness of polymer molding, Nuzzo, Abelson and graduate students Martin Erhardt and Hyun-Chul Jin fabricated thin-film transistors on both planar and curved substrates using two different transistor architectures.

“One design was a common gate, common channel architecture for single-level patterning on a spherically curved glass substrate,” Abelson said. “The other was an isolated channel, inverted staggered architecture with multi-level pattern registration on a planar glass substrate.”

To fabricate the microstructures on a spherically curved substrate, the researchers first deposited thin films of aluminum, silicon and silicon nitride. A patterned silicone mold was then placed in contact with the substrate, and a polyurethane precursor flowed into the mold by capillary action. Following curing, the mold was peeled away, leaving a polyurethane pattern on the substrate, roughly 30 microns high. Typical etching and metalization steps completed the fabrication process.

“While many engineering issues, from throughput to electrical performance, must still be solved,” Nuzzo said, “this work demonstrates the versatility of the soft lithographic patterning technique.”

A paper describing the fabrication process is scheduled to appear in the journal Chemistry of Materials. Funding was provided by the Defense Advanced Research Projects Agency.
Chief Information Officer, Office of Academic Provost. PhD degree in engineering or related science discipline. A PhD and an outstanding record of research and teaching or both are required. Available immediately. Contact UI-Integrate Resource Management, 50 Gerty Drive, MC-673, or UIIRM@uillinois.edu. Closing date: Jan. 31.

Project Officer. Project support specialists program management experience in a related discipline and previous experience in project support or program management support is required. Position is responsible for developing and implementing project support requirements, including project support implementation, requirements definition, project support, and project support training. Available immediately. Contact UI-Integrate Resource Management, 50 Gerty Drive, MC-673, or UIIRM@uillinois.edu. Closing date: Jan. 31.

Project Officer. Project documentation specialists (Chicago, Springfield, and Urbana-Champaign). Bachelor's degree in a related discipline and previous experience supporting major system implementation activities required. Responsibilities include supporting major systems implementation activities, particularly with the development and implementation of comprehensive project documentation. Available immediately. Contact UI-Integrate Resource Management, 50 Gerty Drive, MC-673, or UIIRM@uillinois.edu. Closing date: Jan. 31.

Project Officer. Process and work flow specialists (Chicago, Springfield, and Urbana-Champaign). Bachelor's degree in a related discipline and process experience supporting major system implementation activities required. Responsibilities include supporting major systems implementation activities, particularly with the implementation and operational support of BPEL processes. Available immediately. Contact UI-Integrate Resource Management, 50 Gerty Drive, MC-673, or UIIRM@uillinois.edu. Closing date: Jan. 31.

Project Officer. User support specialists (Chicago, Springfield, and Urbana-Champaign). Bachelor's degree in a related discipline and previous experience supporting major system implementation activities required. Responsibilities include supporting major systems implementation activities, particularly with the implementation and operational support of BPEL processes. Available immediately. Contact UI-Integrate Resource Management, 50 Gerty Drive, MC-673, or UIIRM@uillinois.edu. Closing date: Jan. 31.


Program Coordinator. Academic professional capacity required. Available immediately. Contact UI-Integrate Resource Management, 50 Gerty Drive, MC-673, or UIIRM@uillinois.edu. Closing date: Jan. 31.

Regional Coordinator. Academic professional capacity required. Available immediately. Contact UI-Integrate Resource Management, 50 Gerty Drive, MC-673, or UIIRM@uillinois.edu. Closing date: Jan. 31.


Adjunct Professor: Teaching laboratory specialist and safety officer. Bachelor's degree in chemistry or related field, plus two years of experience as a teaching laboratory specialist required. Available immediately. Contact Gregory Guglielmo, 303-1121, gguglielmo@uiuc.edu. Closing date: Jan. 31.

Assistant director for computer and information science. PhD degree in computer science or related field and at least five years' experience teaching undergraduate and graduate courses required. Available immediately. Contact Cheryl Bullock, 333-8019, pmagelli@uiuc.edu. Closing date: March 2.
Cass Gilbert, designer of well-known buildings, deserves higher profile.

### Architectural profile

"Cass Gilbert: Architect," by UI architectural scholar Sharon Irish, was the first book to offer a comprehensive record of Gilbert’s work, most of which is now more than 190 years old. Building was completed in 1935, a year after his death. Modernism – with a capital M – was introduced to America in 1932 and 1933. And at the time they were constructed, she said, “he was aware of how his buildings would relate to other buildings, and he was conscious of being in, but to coexist. He was respectful of the buildings he thought had integrity.”

### Law must be changed to adapt to shifting realities of adult partnerships

By Mark Reutter

The foremost issue facing family law today is how to realign the legal principles governing marriage to the current reality of complex adult and family relationships, a UI expert writes.

Harry D. Krause, the Max L. Rowe Professor emeritus of law at the UI, argues that piecemeal attempts to deal with the social changes surrounding adult partnerships – in particular, the knee-jerk reaction by 30 state legislators to forbid same-sex marriages – have only made matters worse.

“Marriage may not yet be history, but it should be seen for what it has become: one lifestyle choice among many,” Krause wrote in the Family Law Quarterly, published by the American Bar Association. The “real challenge” to marriage is not from same-sex couples, who seek to extend the protections of marriage to their partnerships, but from the widespread dissolution of lifelong commitment among heterosexual pairs.

Among the dramatic changes in American family life are serial divorces, marriages and other relationships by adults, who leave behind a trail of children and former partners whose legal and financial rights – have only made matters worse.

Law must not be the one event that brings into play a whole panoply of legal consequences. Instead, legal benefits and obligations would be tailored according to the realities of the parties’ relationship.

For example, the tax laws make assumptions based on a “one-size-fits-all” marriage that does not distinguish between couples with and without children. “Why should our tax law, based as it is on ability to pay, make a distinction between two childless two-earner, equal-care partners, based solely on whether the partners are married?” Krause wrote.

Much of the problem is that family law is still wrapped in a “cocoon” of sentiment where all reside in a heterosexual family and where divorce is both hard to obtain and socially unacceptable.

As a first step, the UI law professor argued, “the state’s secular interest in marriage should be defined separately from the religiously-motivated definition of marriage.” By accepting the reality of non-traditional associations, especially in areas of financial obligations to children and to former partners.
Estrogen a possible factor in obesity – for both sexes, researchers say

By Jim Barlow
News Bureau Staff Writer

Estrogen – even in men – may join food indulgence and lack of exercise as factors affecting obesity, researchers on two continents say.

That conclusion is drawn from two companion papers published in the Nov. 7 issue of the Proceedings of the National Academy of Sciences. In the studies, male mice that had been genetically altered to lack either one type of estrogen receptor or the ability to produce estrogen became obese when fed the same amounts as normal mice, expended less energy and built up larger stores of fat.

Scientists from the UI and University of Missouri did one study; researchers at Prince Henry’s Institute in Australia did the other.

“Male mice without the receptor for the classical form of estrogen, which has always been considered a female hormone, got fatter than wild-type mice,” said Patricia A. Heine, a professor in the department of Biochemistry in the UI College of Veterinary Medicine. “Our findings suggest that estrogen may be important for regulating body mass in both males and females,” Heine said. “We don’t know yet if the lack of estrogen is merely decreasing the basal metabolic rate, or if it is also decreasing the activity level of mice.”

Co-authors with Heine and Cooke were Gary A. Iwamoto, a UI professor of kinesiology, and J.A. Taylor and D.B. Lubahn of the University of Missouri in Columbia. The work was supported by grants from the National Institutes of Health and the Animal Health and Disease Research Funds of the UI Agricultural Experiment Station.

In light of the metabolic results of our study, it appears that estrogen enhances one’s ability to burn excess fat in both males and females,” Heine said. “We don’t know yet if the lack of estrogen is merely decreasing the basal metabolic rate, or if it is also decreasing the activity level of mice.”

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“Due to both an increase in the size of the individuals making up the fat, as well as the number of cells present,” the lack of estrogen led to an increase in white adipose tissue, as well as insulin resistance and glucose intolerance. Such a relationship was known to occur in female mice and post-menopausal women, but it had not been shown in males.

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Blood Alcohol Educator

Web site shows effects of alcohol

Knowing when to say when, as the familiar advertising tagline says, just got a little easier, thanks to a new Web site - www.848drink.org – and an interactive program that can be found there: the Blood Alcohol Educator (BAE). “What the program allows people to do is interactively simulate the important relationship between amount [of alcohol] consumed and what happens to your body over time,” says Janet Reis, a UI PhD student, who developed the BAE prototype. By knowing that, they can better set their own safe limits, Reis said.

At the core of the BAE, online in both English and Spanish, is a virtual bar. After entering a gender and weight into the program, the user can choose drinks and how fast to drink them, and get a constant update of the resulting BAC, its effects, and how long it will take to return to sobriety. The BAE was initially part of an interactive CD-ROM, “Alcohol 101,” developed to influence drinking behavior among college students. Leading its development were Reis, William Riley, the UI dean of students; and Lawrence Lokman, with The Century Council, a national non-profit organization funded by America’s leading distillers.

University Primary School

Applications now being accepted

University Primary School, an early-childhood gifted education program that serves preschool, kindergarten and first-grade children in a project-based curriculum, will be accepting applications for enrollment through March 16 for the 2001-2002 academic year. An informational meeting about the school will take place from 7 to 8 p.m. Jan. 18 in Room 26 of the Children’s Research Center, 51 Gerty Drive, Champaign.

For more information, parents may contact Nancy Hartman, director of the school, at 333-4892, or pick up an information packet at either 403 E. Healey (Colonel Wolfe School) or at the Children’s Research Center.

Art for adults

Courses teach drawing, fabric art

Adults interested in introductory drawing or fabric art can register for an 11-class course being offered from 6 to 9 p.m. on Mondays beginning Jan. 29 at the UI School of Art and Design. Registration is $90. "Introductory Drawing" will provide a series of experiences for both beginning and advanced participants; the "Fabric Art" course will provide traditional southeast Asia fabric art methods and will introduce a more contemporary and experimental approach to the media. The course also will offer batik painting, silkscreen painting and tie-dying. For more information, visit http://bardo.art.uiuc.edu/arted/satschool or contact Carole Smith at 333-1562 or by e-mail at cssmith2@uiuc.edu.

Art smart

Courses offered for young artists

The UI School of Art and Design is offering spring art classes for children from age 4 1/2 through high school beginning Jan. 27. The Saturday morning classes will meet 11 times, with the final class on April 29 featuring an open house and evaluation of the student at the Lab Gallery in the school. Registration fee is $65. For more information, visit http://bardo.art.uiuc.edu/arted/satschool or contact Carole Smith at 333-1562 or by e-mail at cssmith2@uiuc.edu.

Author/UI alumnus to speak

Book reveals cartographic crime

Miles Harvey, a 1984 UI graduate, will discuss his book, “The Island of Lost Maps: A True Story of Cartographic Crime,” during an event from 3 to 5 p.m. Jan. 23 in the Rare Book and Special Collections Library, Room 346 of the University Library. Harvey’s book tells the story of an antiquities dealer who allegedly stole an estimated $500,000 worth of antique maps from research libraries in a cross-country crime spree. Barbara Jones, head of the Rare Book and Special Collections Library, will perform a program of commissioned new works in a free concert beginning at 8 p.m. Jan. 23 at Smith Memorial Hall. Nokken will perform "North Americans Spiritually," by Michael Fiorasco; "Allegro Prensarios," by Milton Babbitt; "Echoes" White Veil," by Jordan Eckardt; "Ethudes," by David Balakowsky; and "Chaleure Simple," by Jeff Nichols. Finishing's piece is a tribute to Charles Ives and Carl Ruggles. Nokken also is an active chamber musician and performs with Ensemble 21, Burrenmusic and the Chamber Music Society of Lincoln Center.

Free performance

Marilyn Nokken, a pianist who has emerged as one of the most gifted young musicians performing modern music, will perform a program of commissioned new works in a free concert beginning at 8 p.m. Jan. 23 at Smith Memorial Hall. Nokken will perform "North Americans Spiritually," by Michael Fiorasco; "Allegro Prensarios," by Milton Babbitt; "Echoes" White Veil," by Jordan Eckardt; "Ethudes," by David Balakowsky; and "Chaleure Simple," by Jeff Nichols. Finishing's piece is a tribute to Charles Ives and Carl Ruggles. Nokken also is an active chamber musician and performs with Ensemble 21, Burrenmusic and the Chamber Music Society of Lincoln Center.

The event was JF said:

"Marilyn is a fantastic pianist who is becoming quite well known. Her performances in the area have been a delight. We are very fortunate to have her here in our school and she is a fine addition to our faculty. She is a wonderful musician and we are very excited to have her here in this program."
BRIEFS, CONTINUED FROM PAGE 8

band, Papa Doc Helgesen and His Racing '20s Jazz Band, playing music of the '20s '30s and '40s, and ending with music of the swing era. Then the Jeff Helgesen Quintet will take the jazz time line the rest of the way, performing bebop and post-bebop music. Medicare 7, 8 or 9 founder Dan Perrino will host the program before a live audience in WILL's Collins television studio. The Helgesens, father-son gems of the Central Illinois jazz scene, are returning for the past two years. Burns "JAZZ," six years in the making, continues through Jan. 31, on WILL-TV.

Outstanding student awards
Nominees sought

Student Affairs is seeking nominations for its annual student leadership awards, which have been given since 1987. Some of the leadership awards are named in honor of distinguished alumni, companies and organizations. Monetary prizes accompany all of the awards. The awards and luncheon banquet (April 28) are underwritten by contributions from alumni and friends of Student Affairs. Award information, descriptions and nomination forms can be found at www.uduc.uiuc.edu/awards. The required nomination forms and material may be submitted electronically or by mail, according to the nominator's preference, with the exception of the Consent to Release Records form. This form, which is required for some of the student awards indicated, must be mailed. Nomination forms must be received by 5 p.m. Feb. 14. Any questions regarding the awards should be directed to Willard Broom, associate dean of students, 333-0055.

Diva subject of profile
Leontyne Price featured

WILL-FM's Roger Cooper says the voice of Leontyne Price "not only soared into the heavens and caught the attention of the angels, but it also reached down into the ghetto and found me." Cooper's ninth "Classically Black" program, airing on WILL-FM (90.9/101.1 in Champaign-Urbana) at 4 p.m. Feb. 3 and distributed to public radio stations around the country by Public Radio International, will profile the brilliant opera star who has long been his favorite. She inspired him to keep going. "When Cooper was first introduced to Price's voice in a music appreciation course, he had never heard a black person sing opera. She helped him to keep going at the University of Evansville, where he was one of only two African-American students in the music program. "For the first time I realized that I could do anything I wanted to do in music," said Cooper, who has completed his course work for a doctorate in music at the UI. "I thought I would go into teaching, but she opened up the entire world of possibilities to me."

The one-hour program on Price showcases her extraordinary voice and includes interviews with her former husband William Warfield and soprano Martina Arroyo. It describes Price's childhood in Mississippi, her Metropolitan Opera debut that ended with an unemployed 42-minute ovation, her rapid ascent in the opera world, and her farewell bow in "Aida" in 1985. The program will be repeated on WILL-FM after the Metropolitan Opera broadcast Feb. 17.

Saturday Safari
Museum classes offered

What is it like to be 9 feet tall or weigh a ton? Why do some animals smell so bad for humans? How do animals work as a team to survive and thrive in the wild? These are among the questions children will learn the answers to while participating in the Saturday Safari classes offered by the UI's Museum of Natural History. Reservations are required to participate in the program, in its fifth year and targeted to children in kindergarten through fifth grade. The cost is $5 per class; pre-registration is required. For more information on the series or to receive a series flyer, call Kim Sheahan, 244-3355.

Special English class
Course for non-students

An eight-week course for adults with limited English proficiency is being offered by the Division of English as an International Language. The class, for those who are not students at the UI, meets eight hours per week, Monday through Thursday, from 2 to 3:30 p.m., beginning Feb. 6. The course fee is $50. Teachers in the class primarily are students earning their master's degrees in teaching English as a second language. They are under the supervision of the professional staff of the division. Enrollment is limited; those who appear most likely to benefit from the classes will be given priority. A placement test will be given from 9 a.m. to noon on Jan. 19 and Jan. 24 with a half-hour oral interview in the afternoon. People interested in enrolling should sign up in 3070 Foreign Languages Building to take the test. For more information, call 333-1506.

Stress and Anxiety Clinic
Overwhelmed by worry?

A free program to help adults that are experiencing problems relating to excessive worry is being offered during the spring semester by the Stress and Anxiety Clinic coordinated by Howard Berenbaum, a professor of psychology. The program is designed for people who worry about many different things, have been worrying for a long time, can't seem to stop worrying, and often are overwhelmed by worry. Participants will be evaluated as to the causes of their worrying. Treatment will consist of group-therapy sessions. For more information, call 333-0041.

2000 Campus Charitable Fund Drive: U & I Caring and Sharing in 2000

Last September, when I challenged the volunteers of the Campus Charitable Fund Drive to exceed the annual goal of $875,000 and to raise $1,000,000, I was thinking of the thousands of people those additional dollars could assist. Now that we've exceeded even that mark by raising $1,011,000, I'm thinking of all of you—the volunteers and donors who worked hard to make that challenge a reality. I have always had great faith in the generosity, dedication and commitment of everyone at the University of Illinois at Urbana-Champaign. This is one more tangible piece of evidence of how appropriate that confidence is.

As we return to another semester after enjoying the holidays, I hope that you can reflect on the good things that will happen through your contributions. Locally many community agencies will be able to continue programs that help children succeed in school, make food available for those who are hungry, provide temporary shelter for people in great need, and offer the emotional support missing in so many lives. Across the country and around the world as well, other needs will be met because you understand that although charity begins at home, it doesn't have to end there.

Thank you for contributing to the fund drive and thank you for being generous in many other ways to the services represented in the drive as well as many other deserving organizations. Michael Alan Chancellor

Thanks a million!
lectures

18 Thursday  
“The Debt: The Case for Reparations to African-Americans and African Countries,” Randall Robinson, TransAfrica. 4 p.m. Illini Union, 200 E. Green St., University of Illinois at Urbana-Champaign.

24 Wednesday  
“Moving a Museum: Information Management and Exhibit Design at the New Spurlock Museum.” Paul Marty, UI. 5:30 p.m. 62 Krammer Art Museum.

25 Thursday  
“How fReD Bridges the Gap From Drug Targets to Drug Development,” Steve Rosekind, MedChem.

28 Sunday  
“Jorg Immendorff: A Painter Takes a Stand,”Jorg Immendorff, German painter. 4 p.m. Room 192, Krammer Art Museum.

29 Monday  
“Anatomy of the Art and Science of Relating,” Barbara Stafford, University of Chicago. 8 p.m. Third floor, Levi Faculty Center.

31 Wednesday  

31 Wednesday  
“Interactive Values: From the Classroom to Critical Education,” Ronald Lee. 4 p.m. 315 Foellinger Great Hall.

30 Tuesday  
“Magic of Instruments” takes center stage as the Symphony Orchestra presents Camille Saint-Saëns’ “Organ Symphony,” and Richard Strauss’ tone poems “Thus Spake Zarathustra.” Admission charge.

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32 Sunday  
“STOMP.” By Luke Cresswell and Steve McNicholas. 7:30 and 9:30 p.m. Tryon Festival Theater, Krannert Center. Admission charge.

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Stomping to the rhythm  
The international percussion sensation STOMP comes to Krannert Center for the Performing Arts for four performances in the Tryon Festival Theater at 8 p.m. Jan. 26; 2 and 8 p.m. Jan. 27; and 2 p.m. Jan. 28.

The young performers in STOMP use everyday but conventional percussion instruments. “[W]e will make a rhythm out of anything we can get our hands on that makes a sound,” says co-founder/director Luke Cresswell. Syncopated snare, bristle brooms become a sweeping orchestra; eight Zippo lighters flip open and closed to create a fiery fugue; wooden poles thump and clack in a rhythmic explosion.

18 Thursday  
“The Debt: The Case for Reparations to African-Americans and African Countries,” Randall Robinson, TransAfrica. 4 p.m. Illini Union, 200 E. Green St., University of Illinois at Urbana-Champaign.

More information is available from Marty Israel at 333-1085. The online UIUC Events Calendar is at www.uic.edu/ucalendar/cal.html.
CALENDAR, CONTINUED

from PAGE 10

Admission charge.
Men’s and Women’s Gymnastics. UI vs. Ohio State University. 7 p.m. Huff Hall. Admission charge.
Sunday
Men’s Wrestling. UI vs. University of Minnesota. 1 p.m. Huff Hall. Admission charge.
Women’s Basketball. UI vs. University of Minnesota. 2 p.m. Assembly Hall. Admission charge.

Campus Recreation and Mt. Kesler Health Centers
2 Friday Workshop series: “Working Papers in Asian American Studies: New Directions for the Field.” Moon-Kee Jung. UI-1:3-5 p.m. Asian American Studies Committee Building. For more information, e-mail aauc@uiuc.edu or call 244-8014.

A bloodthirsty tale
Benjamin Bagby, pictured, takes the role of chieftain’s bard, recreating the chilling and bloodthirsty tale of “Beowulf” at Krannert Center for the Performing Arts’ Studio Theater at 8 p.m. Jan. 10-20. In the revered tradition of the twelfth-century minstrel of stories, Bagby accompanies his expressive voice with a six-string lyre.

Dressed in simple, unassuming black, on a softly illuminated stage, Bagby implores melodies, transporting his audience to another time through dramatic techniques of intonation and haunting theatrical guises. He gives life to the Scandinavians’ prince Beowulf who frees the Dunes from the terror of Grendel, a monster of a figure – half man and half fiend.

Contra Dancing
To live fiddle music with fiddler groups at an atmosphere friendly to the participants and families. Visit www.prairienet.org/ contra or e-mail j-sivier@uiuc.edu for more information.

Illinois Folk Dance Society
8-10 p.m. Tuesday and Saturday. Illini Union. Teaching dances first-hour, beginners welcome. Anne Martel. 398-6606.

Illini Glider Club
7:30 p.m. first Thursday monthly. 152 Bevier Hall. Prospective members welcome. Information hotline. 762-5917.

Italian Table
Italian conversation Mondays at noon, Intermezzo Cafe. For more information, contact Kay Bubn, 443-2204 or call 244-6231.

Lifet ime Fitness Program
Individual and group activities, 6:50-8:50 a.m. weekdays. Kinesiology, 244- 4510.

PC User Group
(Schedule varies). 7 p.m. 1310 Digital Computer Lab. Call Mark Zawos, 244-1298, or David Harrey, 333-5656, for more information.

Scandinavian Coffee Hour
4-6 p.m. Wednesdays, The Bread Company, 706 S. Goodwin Ave., Urbana.

Sports
19 Friday
Men’s Wrestling. UI vs. Northwestern University. 7 p.m. Huff Hall. Admission charge.
Women’s Basketball. UI vs. Purdue University. 2 p.m. Assembly Hall. Admission charge.
23 Sunday
Men’s Basketball. UI vs. Indiana University. 1 p.m. Huff Hall. Admission charge.
Women’s Basketball. UI vs. Purdue University. 2 p.m. Assembly Hall. Admission charge.
25 Thursday
Women’s Basketball. UI vs. University of Wisconsin. 7 p.m. Assembly Hall. Admission charge.
3 Saturday
Men’s Basketball. UI vs. Northwestern University. 1:30 p.m. Assembly Hall.

Admission charge.
Men’s and Women’s Gymnastics. UI vs. Ohio State University. 7 p.m. Huff Hall. Admission charge.
Sunday
Men’s Wrestling. UI vs. University of Minnesota. 1 p.m. Huff Hall. Admission charge.
Women’s Basketball. UI vs. University of Minnesota. 2 p.m. Assembly Hall. Admission charge.

c et cetera
16 Thursday
Finishing Workshop: Workshop “Investment Fundamentals.” 7 p.m. UI Employees Credit Union, 2020 S. First St., Champaign. Workshop is free but reservations are required. For more information, send e-mail to memivent@uiuc.edu, or call 278-7768.

UI Employees Credit Union.
23 Tuesday
Discussion and reading: Crime and Iniquity in the Rare Book Room.” 7-5 p.m. Library, Rare Book and Special Collections, Mabel Z. Loomis Center. Graduate and author of “The Island of Lost Maps. A True Story of Cartographic Espionage and Development.” In “The Library Development and Public Affairs.”

26 Friday
Cross Country Skiing for Beginners. 1-4 p.m. Campus Recreation Outdoor Center, 51 E. Gregory. This clinic is designed for the beginner or first-time cross-country skier. Participants will be grouped with a small number of skiers along with a professional instructor. Participants will begin at the fundamentals, such as cross-country skiing techniques and moves on to skiing techniques and tuning maneuvers. For more information, call 333-7250, or send e-mail to camprec@uiuc.edu.

Saturday
Cross Country Ski Day Trip. 9 a.m.-4 p.m. Meet at or Gundiana Rec Center, 51 E. Gregory. Spend day cross country skiing at Allerton Park at Monticello. For more information, call 333-7250, or e-mail camprec@uiuc.edu. Admission charge. Also offered on Feb. 17, Campus Recreation.

347 Library, Rare Book and Special Collections.
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347 Library, Rare Book and Special Collections.
Model reduces stress and warpage in polymer composite structures

By James E. Koeppel
News Bureau Staff Writer

Fiber-reinforced composites are strong and lightweight, but suffer from hidden stresses that can warp the final product or degrade its performance. Modifying the process variables through trial and error is expensive and time consuming. Now, a model developed at the UI promises to improve both the quality and reliability of these polymeric parts.

“The warpage of composite structures during the manufacturing process is a direct consequence of residual stress development,” said Philippe Geubelle, a professor of aeronautical and astronomical engineering at the UI. “These stresses arise because of thermal expansion, chemical shrinkage and non-uniform curing. The ability to predict the residual stresses and their effects is crucial to the manufacture of dimensionally accurate composite structures.”

Geubelle and his colleagues – professors Charles Tucker and Scott White, and graduate student Qi Zhu, Min Li and Daniel O’Brien – have assembled a model that simulates the heat transfer, pressure, curing and residual stress development that occurs during the manufacturing cycle of thermoset composite parts.

“When working with metals, you can carve, bend or stamp the material into the desired shape, but with composites, you actually make the material as you make the part,” said Tucker, the W. Grafton and Lillian B. Williams Professor of Mechanical and Industrial Engineering at the UI. “The manufacturing process is complicated, with many interacting physical phenomena that can affect the final form. Our model allows us to explore those phenomena and to perform our ‘trial and error’ on a computer instead of on a factory floor.”

Often, improving one processing variable only makes the overall problem worse because another variable that had been offset becomes more prominent. “This points out the need for a thorough and fundamental approach to the issues that control the manufacturing process.”

By simulating the mechanical effects of process variables, the model allows engineers to predict accurately the final dimensions and residual stresses in polymer-matrix components – including the tendency of parts to change shape and “spring forward” when removed from their molds.

“Combining the simulation with special optimization methods creates a powerful and versatile analytical tool that can help reduce product defects and improve dimensional accuracy,” Tucker said. “We can tell the software which parameters we are willing to change, and the program runs multiple simulations to find the best manufacturing solution that satisfies all of our requirements.”

Zhu presented the model at the International Congress of Theoretical and Applied Mechanics, held Aug. 27 to Sept. 2 in Chicago. A paper describing the model will appear in the Journal of Composite Materials. Another paper in which the model is used to optimize the curing process will appear in the journal Polymer Composites. Funding was provided by the National Science Foundation.

SECRETS, CONTINUED FROM PAGE 1

published in the next issue of Communication Studies.

Using 650 college students from all three family types to explore the nature of communication “boundaries” and family structures, the researchers found no differences in the number of secrets the students perceived, the topics of those secrets or the perceived functions of the secrets. In addition, they found that all participants were more likely to tell their original siblings the secret than they were to tell their parents, and that regardless of family type, participants’ family satisfaction was inversely related to their perceptions that their family had a comparatively high number of family secrets.

A few differences did emerge: Original parents in blended families were more likely than parents in nuclear families to know students’ secrets, and original siblings in blended families were more likely than step-siblings in nuclear families to know the secret. This suggests that blended families have more complicated boundary networks, but doesn’t imply that they are inherently problematic or deficient.

Step-parents shouldn’t worry when their stepchildren don’t share their secrets with them. Caughlin hastens to add, noting that teens living with original parents often don’t share secrets either. “Keeping secrets is part of growing up, and people shouldn’t assume that it means their step-family is dysfunctional – or any more dysfunctional than other families.”

The discovery of strong similarities across the various family configurations has “potentially important implications for how different family forms are studied,” Caughlin said.

In the past, researchers have resisted comparing family types because they have bought into a “deficit model” theory in which nuclear families are regarded as the standard family, the blended and single-parent family as incomplete, imperfect or inferior versions of the norm. The current study, however, demonstrates that such comparisons “can identify ways in which family functioning is the same in different family configurations.”

SUNDANCE, CONTINUED FROM PAGE 1

In fact, Rosenstein said, the feedback he received from his peers was “unbelievable.” “People for days and days afterward kept coming up to me. One woman gave me a book her husband wrote; someone else gave me another video. Even when I got home, people started e-mailing me, asking if they could have copies.”

Buoyed by the reactions of his fellow filmmakers, he decided to submit the film to Sundance. When the call came saying it had been accepted, Rosenstein said he was elated.

“I was extremely happy because I had high hopes for this. Sometimes before making a film you have an idea in your head of what it’s going to be when it’s finished. Then you finish it. And then, normally, I think, you’re disappointed initially – because it just didn’t live up to what you thought it was going to be. Sometimes things just don’t pan out the way you envision them. And sometimes things end up being better than you thought they were going to be. This was one of those cases.”

Judges for two other film festivals apparently agreed. In addition to Sundance, “Erased” has been accepted for inclusion in the San Francisco Independent Film Festival and a Jewish film festival in Portland, Ore., both of which are coming up soon.

Others are paying attention to the film as well. “I got a phone call from someone at Miramax, who wanted to see it, and from Atom Films,” an online company that specializes in shorts and also distributes its films to airlines and television networks.

Rosenstein said he doesn’t have plans to make other shorts of this nature. He eis, however, putting finishing touches on a feature-length documentary about the local choral group Amaasong. The working title of the film, which he expects will be completed this spring, is “The Amaasong Choir: Beauty and Justice.”

“It is about a small-town lesbian/feminist choir that rises from humble beginnings to become a nationally recognized ensemble,” Rosenstein said. “But it’s also about how music and the arts can be used to help transform a local community to be more accepting and tolerant of different kinds of people.”

“I think it’s a great, very multitempered story.”