Massoud Amin to talk about new energy technologies: Smarter cities with smart grids

In a recent book, *The Rise and Fall of American Growth*, Robert Gordon argues that the pace of real transformative innovation has slowed since the 1970s and that over history, there have been only a handful of fundamental technological changes. They are: electricity, telephone, combustion engine, mass production, indoor plumbing, and the conquest of infectious diseases.

It is hard to imagine a world without electricity but there are new, disruptive technologies within the energy sector that will change the way we receive our electric power. Smart-grids are coming. Renewable sources of energy are cropping up in our fields and on our rooftops. Minnesota law requires that 25 percent of the retail electric energy sold in the state must be generated or procured from eligible renewable sources by the end of 2025.

How can this be done? What new technologies will this take? What does it mean for reliability and the cost of our electricity?

At our April luncheon, the evolution of technologies and ways of doing business in the electric energy industry will be addressed by Professor S. Massoud Amin, Honeywell/Harold W. Sweatt Chair in Technological Leadership, professor of Electrical and Computer Engineering, and director of the Technological Leadership Institute (TLI) at the University of Minnesota. He is chair of the Institute of Electrical and Electronics Engineers (IEEE) Smart Grid, a fellow of IEEE and ASME, and a leader on the board of directors of two utility industry regional entities that oversee reliability.

Dr. Amin received his D.Sc. from Washington University in St. Louis, Missouri, and served there on the faculty for 12 years. Prior to coming the U of M in 2003 he was at the Electric Power Research Institute (EPRI) in Palo Alto, California. In the aftermath of 9/11, he directed all security-related research and development at EPRI as well as grid operations and planning, energy markets, and risk and policy assessments.

A recent book, *A Foundation of Electricity*, authored by Robert A. Dent and published by the IEEE, credits Dr. Amin with articulating the vision of a “smart self-healing grid” back in January 1998. Subsequently, he led the largest R&D consortia in U.S. history focused on the reliability and security of the North American interdependent critical infrastructures. Massoud is a member of numerous professional associations and has served on boards at the National Academy of Engineering and the National Academy of Science.

In addition to being ahead of his time with intellectual leadership in electrical engineering and designing of critical infrastructure, Dr. Amin has been a leader in developing and delivering new graduate degree programs in Security Technologies and Medical Device Innovation. He has served Continued on page 3
**Paradox of Plenty**

When is enough, enough? When is enough too much? With seemingly infinite line extensions of products, especially in the drug store and grocery store, we struggle to decide on the right product for us. Marketing strategists claim to be giving us what we demand, that is, more choices in the toothpaste aisle: tooth paste or tooth gel, with or without whitener, striped or blue, mint flavored or no flavor? You get the idea.

As an economist, I have taught the theory of consumer behavior that stipulates that consumers select goods and services that maximize their utility (roughly translated as satisfaction) given the amount of money they have to spend. With this theory comes the idea that more is always better than less. Thus, it is concluded, that the more informed choices we have, the greater the likelihood that we are satisfied. This sounds straightforward but I have decided that for all its elegance and widespread applicability, this theory must have been created in an era of scarcity, when it was inconceivable that less might be better than more.

The concept of the paradox of plenty has been under discussion for decades, but it seems to have poignant relevance for those of us who are retired. Does living with plenty (of everything) cripple our ability to make decisions about what to eat, what to give away, what religion to ascribe to or what to put on the bucket list? We are bombarded with seminars and books about how to downsize, how to de-clutter our homes and our lives. A quick count on amazon.com revealed at least 43 books printed in the past 15 months that have the word de-clutter in the title. A similar search for books titled Paradox of Plenty uncovered two books with the lone title (1932 and 1968) and five other books with subtitles referring to obesity/hunger in America, spiritual hunger, oil and gas booms, and labor in the Middle East. Sometimes the supply of goods and services outstrips the demand. On an individual level, it is possible that we simply have too many choices.

There is a large body of literature in the academic world that sheds some light on this phenomenon. Consumer researchers have found that as the number of choices rise, the more difficult it is to make a decision. It simply takes too much time to evaluate a large variety of options. It is emotionally exhausting. Shopping is costly. In some cases, consumers walk away selecting nothing. In some cases they reject a whole category of products such as cell phones or social-media connections.

In a typical academic study of this phenomenon titled “When Choice is Demotivating: Can One Desire Too Much of a Good Thing?” * it was found that an extensive array of options reduces the likelihood that a purchase will be made. Specifically, in one of the experimental studies, a limited assortment of six jams in a grocery store setting resulted in 30 percent of consumers making a purchase while an assortment of 24 to 30 jams resulted in only three percent of consumers making a purchase. Although many preferred looking at a large variety, it did not lead to a decision to purchase. Another study** of menu choices found that the larger the number of items on the menu the more likely people were to choose a “virtuous/healthy/practical” food (salad) rather than an indulgence (pizza). It was concluded that a virtuous choice is easier to justify.

With or without the results of research experiments, one often observes that it becomes too difficult to learn and translate all the information one needs to select the best product so one just moves on or resorts to habitual/safe choice. And if a selection is made, there is a lingering question about whether it was really the best choice.

We do indeed live with the “paradox of plenty” in many parts of our lives. No wonder we use our own personal, time-tested criteria for selecting a store, a food, a radio station, or a TV show.

— Jean Kinsey, UMRA President


A note about luncheon reservations

Please make your reservations early to ensure your place at the luncheon. Space is limited. While we’d like to accommodate everyone who wants to attend, the capacity of ABC Campus Club is limited to 110 reservations.

Mark your calendars for Annual Meeting

May 24—Annual business meeting and election; gala luncheon; speaker will be Peter Moe, director of Operations and Research, University of Minnesota Landscape Arboretum
April 26 Workshop focuses on having FUN with your camera and the pictures you take

Following the UMRA lunch meeting Tuesday, April 26, the UMRA Photo Club will be hosting a workshop, “People Using Little Cameras Can Do Huge Things.”

Most of us grew up taking pictures as prints or slides, and now we find ourselves in the digital age. Part of digital photography is the same—you aim your camera, focus the picture, and press the shutter. But other parts of digital photography are quite different: Digital cameras will focus for you and offer lots of other options.

Using your computer you can now make adjustments to your digital pictures in ways only professionals could before. These changes can be a mixed blessing. On the one hand the control you can exercise is great, while on the other hand it can, at times, be an exercise in frustration.

Come to learn how your fellow UMRA members are exploring this brave new world. A display table will be set up before the luncheon with photo items from members of the UMRA Photo Club. Come early and stop by to see some of the creative ways club members use their photos.

Photo Club member John Anderson on a club photo shoot expedition at Como Conservatory last spring

Members of the UMRA Photo Club are aspiring amateurs along with a few very good photographers who are generous with their help and understanding. We have lots of questions, and we help each other find the answers.

We’d love to try to answer your questions too. If you have any now, you can send them to Sheri Goldsmith at golds009@gmail.com so that we can include them in our preparations.

The workshop begins at 1:30 p.m. in Campus Club ABC following the lunch meeting Tuesday, April 26. Bring your friends. UMRA workshops are free and open to everyone.

— Craig Swan, co-leader for the UMRA Photo Club

Access material presented at the UMRA workshops on financial management

During the past several months Professor Andrew Whitman of the Carlson School presented a series of three UMRA workshops on management of financial resources during retirement: Will Your Cash Last As Long As You? Retiree Health Finances, and Retiree Estate Planning.

Andy is making the PowerPoint slides and references lists he developed on the topics available on his moodle.

If you would like to access his PowerPoint slides and references lists, send your name and email address to veidman@umn.edu. I will work with Andy’s assistant to send you the URL to use in accessing Andy’s moodle.

— Vern Eidman

Nominating Committee develops slate for officers and board members election

By the next Newsletter the Nominating Committee expects to report its recommendations for 2016-17 officers and new board members. The list will include four Board members, the Secretary, Treasurer, and the President-elect.

At this time we have commitments from most of the candidates for these positions. Thanks to all who have contributed names to this effort.

— Hal Miller Nominating Committee Chair

Continued from page 1: April speaker

as the director of Graduate Studies for the flagship M.S. in Management of Technology (MOT) program in TLI, founded in 1987. TLI is a self-sustaining interdisciplinary center endowed by the Honeywell Foundation and housed in the U of M’s College of Science and Engineering.

Massoud will provide an overview of the current state of energy and power at both macro- and micro- (consumer) levels. He will discuss challenges and opportunities for the development of energy and smart-grid technologies in Minnesota. Minnesota is sixth in the nation for smart-grid patents. Massoud argues, “We have the capability to be a leader in this area.”

Connecting and engaging people of all ages and backgrounds to improve the understanding of the technology and the benefits of smart-grid development will move smart grid technology and smarter cities forward in Minnesota and beyond to the global market.

— Jean Kinsey, UMRA President
**Information for future retirees**

UMRA made contact with 188 attendees at the pre-retirement seminars, March 1 and 10, sponsored by the Office of Human Resources. Each received a copy of the UMRA brochure at the seminar and requested an electronic copy of the “UMRA Retirement Kit,” which was subsequently delivered by e-mail. Although many of the seminar attendees may be several years from their retirement, this recruitment activity by the Membership Committee informs them about UMRA and encourages them to consider becoming members when they retire.

The “UMRA Retirement Kit March 2016” is an annotated directory with active web links to a broad range of topics related to the retirement process as well as issues of interest to retirees.

UMRA members may also find this a useful starting point when researching a new topic. The “UMRA Retirement Kit, March 2016” and the associated file, UMRA Retirement Kit Forms, March 2016, are available on the UMRA website on the Member Services page (http://www.umra.umn.edu/member-services/resources)

— John Anderson, chair, Membership Committee

**From the Cares Committee Bookshelf—**

**Cancer Caregiving A to Z: An At-Home Guide for Patients and Families**

The role of a cancer caregiver has expanded greatly in recent years. Cancer patients may be discharged early from the hospital or have side effects from the treatments they’ve received that must be dealt with at home. This book is designed to help those of us who are caregivers to effectively carry out tasks like administering medications, monitoring symptoms, and even hooking up intravenous antibiotics.

The 48 topics of this 140-page book are arranged alphabetically and include practical and useful information from the experts at the American Cancer Society. Some letters have several topics like the B’s, with Blood Counts, Blood in Stool, Blood in Urine, Bone Marrow or Stem Cell Transplants. Some letters have only one topic like R: Radiation.

Especially important are the T’s: Treatment at Home and Tubes and Intravenous IV Lines. I also found helpful advice that can be applied to other medical conditions besides cancer. For example, under the Hospice topic: Signs that a patient is nearing death.

The book can be purchased on the following website: cancer.org/cancer/bookstore/caregiving-books

— Reviewed by Pat Tollefson, UMRA Cares Committee
Season is in the air—
Nature projects await volunteers

This is a great time to give thought to engaging with the environment. Yes, if we are still in our homes, we look forward to cutting back raspberry canes, planting gardens for the lovely flowers and vegetables that will spring forth, and mowing lawns. But, many are in apartments and need the exercise and to use our nature skills. What to do?

Volunteer for Nature projects! Many organizations need your help.

The University campus is a start. Think of how often you have traversed the campus and admired the plantings. Yes, there is a student workforce, yet volunteers are still useful without displacing them. Whether it be in the greenhouses or on the campus landscape you can make a contribution to both the University and yourself.

The Mississippi National River and Recreation Area is embedded in our community, a branch of the National Park Service. Volunteers-In-Parks (VIP) serves the needs throughout the year.

Big River Journey Field Trip (May 2-6, 9-13, and 16-19: 8:30 a.m.-2 p.m.) The field trips, for students in grades 3-6, consist of stations led by volunteers or staff. Training is provided on the first volunteer day. Volunteers help at stations about river geology, otters/ecosystems, macroinvertebrates, birds and urban watersheds.

Journey to the Falls Field Trip (May 20, 23-27, 31 and June 1: 8:30 a.m.-2 p.m.) Volunteers help with a mock archaeological dig. Volunteers help dig “sites” in sand under the Stone Arch Bridge then seed the sites with artifacts from the Mill Ruins Park excavation, Pillsbury A Mill, or items of St. Anthony Falls’ industrial past. Students uncover the sites with your help. Training materials e-mailed in advance.

St. Anthony Falls Visitor Center—Upper St. Anthony Falls Lock and Dam, Mpls. Memorial Day through Labor Day 10 a.m.-4 p.m. Six shifts required in season. Help visitors learn about the Mississippi River, St. Anthony Falls area. An interview and training will be required.

Summer Canoe Volunteers—Volunteers needed to help with canoe programs during the summer. Help demonstrate paddling techniques, fit life jackets, and paddle alongside as a safety canoe.

Weekday Youth Programs—Assist park rangers with school groups and summer programs.

For information contact: University Retirees Volunteer Center: URVC@UMN.EDU
— Alan L. Kagan, Project Director

Getting your money’s worth * from UMRA’s new website — how it works

We began using our new website September 15, 2015. Since that time, lots of material has been added, and a number of flaws have been found and fixed. We are still working on expanded capabilities that will come when the member database is connected to the website.

Working with the officers and the board of directors, we have identified about 20 members we have labeled “contributors” — because their activities make UMRA work as an organization and are of interest to our membership. We have developed a contributor’s guidebook for those who frequently—or just occasionally—have items to report.

Items have been categorized as “background” and “news,” and news has been categorized as “announcements” and “events.” The website menu, across the top, also categorizes the contents, but much of the content is made up of background and news items. You may have already noticed that “event” items such as monthly luncheon meetings seem to vanish the day after they take place.

Built into the website software are information management tools that help keep the most relevant information at the head of the pages. When events are in the past, they are removed from active display. Similarly, after 60 days, announcements are usually taken off active display. But, at the bottom of each column, both announcements and events, is a “View More” link. The link takes you to a page displaying all previous announcements and events. Though no longer active, these records are a convenient way to look up past UMRA news and activities.

— David Naumann, UMRA webmaster

* Development of the new website was done entirely by volunteers. No money was involved.

UMRA Care Guides—
A service now available to UMRA members

Are you facing a difficult decision about health care, especially long term care? The Center on Aging at the U of M has initiated a program to assist you, and several UMRA members have been trained there as Care Guides.

The guides will offer a way to think through the issues involved. They will not provide advice per se; rather, they can help you clarify goals, ensure that you know about the full range of potential options, and refer you to resources. All the work will be confidential.

To speak with an UMRA Care Guide, call the Center on Aging, 612-624-1185. After hours, please leave a message.
Making a difference—
Share the vision of the U’s cross-disciplinary work in addressing world problems

Senior Vice President for Academic Affairs and Provost Karen Hanson spoke at the UMRA Luncheon in February; she described the development of the Grand Challenges Research Strategies, designed to build clusters of cross-disciplinary researchers to attack really big world problems.

The strategy was, and is, to identify challenges about which the U of M faculty have considerable strength, and, by working together, can contribute considerable knowledge.

Provost Hanson enthusiastically embraces the idea that cross-disciplinary work is necessary if we are to make a difference in the world. She looks forward to encouraging faculty to participate in producing some quick wins in each of the five major categories: Assuring clean water and sustainable ecosystems; Feeding the world sustainably; Advancing health through tailored solutions; Enhancing individual and community capacity for a changing world; and Fostering just and equitable communities.

Addressing the question: what role can retirees play in the success of the strategic plan, she suggested “reciprocal engagement.” We, as retirees, can be champions for the plan with our colleagues, our community, and the Legislature.

We can share the vision with people we know in local private companies. She emphasized that communication about the work at the U of M is every bit as important as the research itself. The Grand Challenges arise out of a changing state, nation, and world. The considerable experience and wisdom that is shared among retirees can be extremely valuable in supporting the ongoing contributions of the U.

— Jean Kinsey, UMRA President

Securian discusses its financial strength with U of M Retirement Committee

Representatives of the Securian Financial Group met with the committee on March 7. In addition to discussing their financial performance for the past year, they discussed changes in the rates being paid on the General Account and General Account Limited, and changes in the information they are providing to the University community.

Securian reported another year of strong growth in sales during 2015, increasing the value of their business across all lines about 9 percent. They also provided evidence that they are remaining financially sound as they grow in size.

A common measure used by insurance regulators to determine whether an insurance company is financially sound is the risk-based capital ratio. This measure compares the ratio of the company’s capital and surplus with the minimum amount of capital appropriate (considering its size and risk profile) for the insurance company to support its overall business operations. The industry recommends a company’s capital and surplus be at least 250 percent of this minimum amount. Securian targets a ratio of 500 percent, a level they exceeded in 2015 and each of the previous three years.

The committee asked the Securian staff how sensitive the risk-based capital ratio is to unexpected shifts in the economy. Securian shared stress test results of a significant decline in equity markets, a loss of a significant loss in general account assets, an interest rate spike, combinations of the three, and a 2008 type event. In each of these cases risk-based capital remains significantly above 400 percent, well above the minimum level required by the industry.

We discussed rates of return they are paying on the General Account and the General Account Limited, which have been declining in this low interest rate environment. While the statutory minimum return is 3 percent, they affirmed that Securian is committed to maintaining an earnings rate on the general account limited that is at least a 0.5 percent higher than the statutory minimum. See the Securian website umplans.securian.com for current rates.

Securian is updating their website and making more tools and learning modules available for our use. One of the new tools the retirement committee has been asking for is the retirement distribution planner, which should be available in late June. This may be of particular interest to UMRA members to test the impact of various patterns of withdrawals for gifts to family, gifts to charity, travel, and other uses on the funds available to meet your future financial needs.

— Vern Eidman
Congratulations to the 2016–17 recipients of the PDGR program grants

In February a committee of retirees, appointed by Frances Lawrenz, Associate Vice President of Research, reviewed and recommended 11 of 12 applications for Professional Development Grants for Retirees. On March 1, the Office of the Vice President for Research announced the recipients for the 2016–17 Professional Development Grant for Retirees. Congratulations to the following recipients:

• F.R.P. (Ron) Akehurst, Emeritus Professor of French; Department of French and Italian, College of Liberal Arts, University of Minnesota–Twin Cities: Construction of a Stemma of the Manuscripts of an Important 13th-Century Legal Text, The Conseil of Pierre de Fontaines.

• Ferolyn Angell, Emeritus Lecturer in Dance; Humanities Division, University of Minnesota–Morris: Production of a Theatrical Dance Film of Family During the Nazi Reign in Germany.

• Joanne B. Eicher, Emerita Regents Professor, Department of Design, Housing and Apparel, College of Design, University of Minnesota–Twin Cities: Publication of Nigerian Textile and Dress Research.

• Josie R. Johnson, Associate Vice President for Academic Affairs; Office of Equity and Diversity, University of Minnesota–Twin Cities: Josie Johnson: A Life of Service.

• Diane Katsiaficas, Professor of Art (retiring May 15, 2016), College of Liberal Arts, University of Minnesota–Twin Cities: Building on Tradition: Sharing Contemporary Papermaking and Artist Book Design in Alexandria, Egypt.

• Lary May, Emeritus Professor of American Studies and History, American Studies Department, College of Liberal Arts, University of Minnesota–Twin Cities: Victory’s Shadow: Global Hollywood and America’s Cultural Wars.

• John D. Nichols, Emeritus Professor of American Indian Studies, College of Liberal Arts, University of Minnesota–Twin Cities: Anishininimowin Oji-Cree Dictionary (Severn Headwaters) Revision.


• James Bruce Overmier, Emeritus Professor of Psychology, Department of Psychology, College of Liberal Arts, University of Minnesota–Twin Cities: Keynote Address, 31st International Congress of Psychology, Yokohama, Japan, July 24-29, 2016.

• Donald Poe, Emeritus Professor; Department of Chemistry and Biochemistry, Swenson College of Science and Engineering, University of Minnesota–Duluth: Importance of the Thermal Environment in Chromatographic Separations.

• David Schimpf, Emeritus Associate Professor of Biology, Department of Biology, Swenson College of Science and Engineering, University of Minnesota–Duluth: Pollutants in the Growth Rings of Red Oak.

Funding for the Professional Development Grants is from the Office of the Provost. Staff from the Office of the Vice President for Research administer the grants. Please join UMRA in thanking Karen Hanson, Senior Vice President of Academic Affairs and Provost, and Fran Lawrenz, Associate Vice President of Research, for supporting this grants program for retirees.

Jan Hogan-Schiltgen, UMRA chair, PDGR program

Online journal continues with new leader

Several years ago Marty Dworkin, emeritus professor of Microbiology and long-time member of the Retirees Association, initiated a new, online, electronic publishing venture titled the Journal of Opinions, Ideas, and Essays (JOIE). Originally lodged on the University’s Digital Conservancy System, JOIE has recently moved to the University Library’s Digital Platform for Scholarly Publishing, which houses an array of electronic publishing ventures that are searchable via the Internet.

Now sponsored by UMRA, JOIE is overseen by an Editorial Committee appointed by the UMRA Board of Directors. Last month the UMRA Board named C. (Bud) Clawson, professor emeritus of Pediatrics, as editor in chief of the JOIE project. Bud has published on JOIE and has the breadth of interests and experience essential to the continuing development of the JOIE program.

JOIE is open to submissions of varied content and format from retired and still-employed faculty, P&A, and civil service staff on the Twin Cities and coordinate campuses and is searchable via Google and other web-based systems.

Additional information concerning JOIE, including a roster of the JOIE Board, a more detailed project description, a list of the program’s publications to date, and instructions for making submissions is available on the JOIE website at: pubs.lib.umn.edu/joie.

Visit the JOIE website and consider submitting an article to this new and novel publishing venture.

“Food for Thought”
To me, old age is always 15 years older than I am.
(Francis Bacon)
Have you changed your address, e-mail, or phone?

1. Print new information below.
2. Cut out this form and address label.
3. Mail both to the address above.

Name _________________________
Address _______________________
City, State ______________________
Zip ________ Phone ____________
E-mail ________________________
Other Info _____________________

Website: https://umra.umn.edu
UMRA's phone: 612-626-4403

In Remembrance
We report the passing of UMRA members as we learn of losses to our UMRA community. Since the Newsletter was published last month, we have received news of the following. Our condolences to the friends and family of:

Russell G. Hamilton, who died February 27, 2016. He retired from the Spanish and Portuguese Department and had been an UMRA member since 2009. His wife, Cherie Y. Hamilton, continues as a member.

UMRA Cares Committee is here for support
For assistance and support in the event of the death of serious illness of an UMRA member or family member, please e-mail us at umracares@umn.edu or call 612-626-4403, and leave a message for UMRA Cares.

If you learn of someone who is facing a difficult life challenge, please contact the UMRA Cares Committee.

Also if you are facing a difficult decision about health care, especially long-term care, the Center on Aging at the U of M has initiated a program to assist you. Several UMRA members have been trained there as Care Guides. To speak with an UMRA Care Guide, call 612-624-1185.

Meet the Voices Behind the Words
Visit the U of M Bookstores at www.bookstores.umn.edu for information on our in-store author events. Subscribe to our author series e-mails and never miss a reading again.

University of Minnesota Bookstores

The Board of Directors and members of UMRA thank the University Bookstores for sponsoring UMRA’s April Newsletter and for providing the following information. Remember to use your UMRA member discount at the U Bookstores.