



INSTITUTE FOR OPERATIONS RESEARCH
AND THE MANAGEMENT SCIENCES

I-Sim Newsletter

Officers

President

[Seong-Hee Kim](#)

H. Milton Stewart School of Industrial and Systems Engineering
Georgia Institute of Technology
Atlanta, GA 30332
(404) 894-4551
skim@isye.gatech.edu

Vice President / President Elect

[John F. Shortle](#)

Department of Systems Engineering and Operations Research
George Mason University
Fairfax, VA 22030
(703) 993-3571
jshortle@gmu.edu

Secretary

[Peter I. Frazier](#)

School of Operations Research and Information Engineering
Cornell University
Ithaca, NY 14853
(607) 254-5243
pf98@cornell.edu

Treasurer

[Raghu Pasupathy](#)

Department of Statistics
Purdue University
West Lafayette, IN 47907
(765) 496-9560
pasupath@purdue.edu

Communications Editor

[Susan R. Hunter](#)

School of Industrial Engineering
Purdue University
West Lafayette, IN 47907
(765) 494-3886
susanhunter@purdue.edu

Associate Communications Editor

[Jie Xu](#)

Department of Systems Engineering and Operations Research
George Mason University
Fairfax, VA 22030
(703) 993-4620
jxu13@gmu.edu

President's Message

Seong-Hee Kim

Greetings! Spring is around the corner and I am sure that you are enjoying warm and sunny weather. I am glad to report that I-Sim had another active and strong year in 2016. The total number of active members is close to 700 including around 200 international members, which is similar to year 2015. I-Sim had strong presence in the 2015 INFORMS Annual Meeting in Philadelphia, Pennsylvania sponsoring 12 sessions. The 2015 Winter Simulation Conference was held in a beautiful surf city, Huntington Beach, California. As usual, I-Sim continues to co-sponsor this leading conference in the field of simulation. I-Sim was one of the co-sponsors of the PhD Colloquium, which involved 17 final year students.

At the Winter Simulation Conference Business Meeting, I-Sim honored the following colleagues for their major contributions to our community:

- Bernard P. Zeigler - Lifetime Professional Achievement Award;
- Enver Yücesan - Distinguished Service Award; and
- Russell R. Barton, Barry L. Nelson, and Wei Xie - Outstanding Publication Award.

Other honorees included WSC Diversity Award recipients Thuy Anh Ta (University of Montreal), Niniet Indah Arvitrida (Loughborough University), and Sara Minaeian (The University of Arizona), and I-Sim WSC Best Student Paper Award winner Guy Feldman (Purdue University). You can find the photos and full award citations on the I-Sim website.

Since 2007, I-Sim has held I-Sim Research Workshops every two years. We would like to continue this tradition and are currently soliciting proposals for potential organizers. If you are interested in organizing the 2017 I-Sim Research Workshop, please send me a brief proposal at skim@isye.gatech.edu by April 30, 2016. You can find the details of this call for proposals on the I-Sim website and INFORMS Connect. Planning has also started for the 2016 INFORMS Fall Meeting and the 2016 Winter Simulation Conference. We are looking forward to your support and participation in making these events successful.

It is time, once again, to elect new officers for I-Sim to serve from 2016 to 2018. The new officer positions include Vice-President/President Elect, Treasurer, Secretary and two I-Sim Council members. Details on the slate of candidates and voting instructions are available in this newsletter. I'd like to encourage you to carefully consider these candidates and cast your vote. I also hope that you will help the award committees by nominating candidates for the 2016 I-Sim awards.

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President's Message, Continued

Seong-Hee Kim

Finally, I would like to thank all of you for giving me the opportunity to serve as I-Sim President. My term ends this summer and our President-Elect, John Shortle, will be starting his term as President of I-Sim. I am thankful for all of the support I have received from I-Sim officers, committee members, and the I-Sim members during my term. As always, please feel free to contact me with any ideas and suggestions for improving I-Sim. I look forward to seeing you at upcoming I-Sim events.

Please pass along this newsletter to friends and colleagues, or let them know about the *INFORMS Simulation Society* website. You'll get more than just a newsletter. The URL is

<http://www.informs.org/Community/Simulation-Society>

This website is designed to be a general source of information and links for the simulation community, with a particular focus on society interests and activities. There are often additional special items, such as announcements for the *Winter Simulation Conference* and upcoming *INFORMS* conferences.



The *INFORMS Simulation Society Newsletter* is published in the spring and fall of each year by the *INFORMS Simulation Society*. Membership in the *Simulation Society* is independent of membership in *INFORMS*. The annual membership fee for non-*INFORMS* members is \$20.00; *INFORMS* members may join for \$10.00. The fee for students and retired members who are also members of *INFORMS* is \$5.00.

To join, call 1-800-4-INFORM (1-800-446-3676) (from the USA) or (+1) 443-757-3500 (from outside the USA). Or point your web browser to <http://www.informs.org/Community/Simulation-Society/Join-Us>. Or contact the secretary, whose email address information appears on the front cover. Please pass along this announcement to others who might be interested in joining. POSTMASTER: Send address changes to *INFORMS Simulation Society Newsletter*, 5521 Research Park Drive, Suite 200, Catonsville, MD 21228

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Editor's Corner

Susan R. Hunter

Jie Xu and I are happy to bring you the Spring 2016 edition of the I-Sim newsletter. This newsletter contains a full twenty-three pages of information, from a detailed report on the Simulation archive, to the 2105 I-Sim award winners, to I-Sim election ballots. Thank you to everyone who contributed sections.

In addition to reading the bios for the I-Sim award recipients in the newsletter, videos of the LPAA Award speeches are also available. For the past two years, I have recorded the LPAA Award speeches at the WSC I-Sim Business meeting. The decision to record both speeches was last-minute: in the case of Bruce Schmeiser, I only caught the second half of the speech, and in the case of Bernard

Zeigler, I only caught the first fifteen minutes before my phone complained of insufficient space. Nonetheless, these videos are now available on a YouTube channel that I created for the I-Sim Communications Editor, <https://www.youtube.com/channel/UCWdr724RQ9mIRyHuHh9czMg>. Since LPAA Award recipients often have unique perspectives to share with us, I hope that the I-Sim community will find a way to record these speeches in the future — hopefully in a more premeditated fashion!

Since my term as Communications Editor is also ending, I would like to thank Seong-Hee for asking me to serve in this role. It has been a pleasure!

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Treasurer's Report

Raghu Pasupathy

Beginning Balance (1/1/2015)	\$94,119.04	
Total Revenue	\$18,523.03	
• Dues		\$6,115.00
• Interest		\$736.03
• WSC Sponsorship, surplus		\$11,672.00
Total Expenses	\$(7,675.10)	
• National meeting expense (INFORMS)		\$(3,621.52)
• Local meeting expense (WSC)		
• Subdivision payment (WSC awards)		\$(3,891.50)
• Bank fees		\$(149.10)
• Misc/General Expense		\$(12.98)
Net Gain / Loss	\$10,847.93	
Ending Balance (10/31/2015)	\$104,966.97	

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Secretary's Corner

Peter Frazier

As of April 14, 2016, we have 517 members, which is 21 more members than at the same time last year (March 2015). Thank you for your support!

Based on numbers from Oct 2015, 29% of our membership is international. The most well-represented non-US country is Canada (19% of our international membership), followed by the United Kingdom and Australia, each with 8% of our international membership.

Please remember to renew your I-Sim membership when you renew your INFORMS membership this fall or winter.

You can renew online at <http://renew.informs.org>. If you are not currently a member and want to join I-Sim, please visit <http://www.informs.org/Community/Simulation-Society/Join-Us>.

Members receive discounts on conferences sponsored by the Simulation Society, including the Winter Simulation Conference. Membership is also a great way to participate in and support the simulation community.

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COMMITTEE REPORTS

Report from the Communications Committee

Theresa M. Roeder, Chair

Because of changes in technology that have eased the burden of maintaining the web site and listserv, the Communications Committee is proposing the dissolution of the committee as it stands. Instead, we propose the committee consist of

- the newsletter editor/web site administrator,

- associate newsletter editor/web site administrator,
- the I-Sim president.

Ad-hoc committees can be formed as needed. The item was discussed at the business meeting in December and will be put to a vote in the fall.

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Report from the Recruiting and Retention of Members Committee

Young-Jun Son (Chair), Ilya Ryzhov, Taesik Lee, Andrew Collins

As part of recruiting efforts, we attended the “New Member Breakfast” at INFORMS Annual Meeting 2015 in Philadelphia and met with people who were interested in hearing about I-Sim.

In late February, we conducted a survey on what I-Sim means to its members. The survey questions included:

1. What do you like about I-SIM?
2. What would you change?
3. How has the world-wide web affected the purpose of professional societies?
4. What is the future of I-SIM?

We received great responses, based on which we are currently developing ideas to attract future membership. Some of ideas include the following:

1. The committee will attend WSC PhD colloquium

and meet with participants.

2. We will contact PhD colloquium participants and I-Sim members who do not renew with “benefits” of being members.
3. We will continue to solicit feedback from I-Sim members on new ideas to attract future membership.

A key point about what people like about I-Sim is both quantity and quality that it provides, so this is something that we need to keep going.

Finally, please visit

<http://www.informs.org/Community/Simulation-Society/Join-Us>

to join I-Sim or renew your membership.

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Report on the Simulation Archive

Simulation Archive Advisory Committee: Richard E. Nance (Chair), Robert G. Sargent, James R. Wilson

1. About the Simulation Archive

Established in the fall of 1998 at the N.C. State Libraries, the Computer Simulation Archive (<http://d.lib.ncsu.edu/computer-simulation>) provides an invaluable resource for current and future scholars in computer simulation, computing history, and the history of technology. The SAAC serves to advise the library staff, to promote the development of the Archive, and to provide channels of communication for those interested in the evolution of the Archive.

The strong, continuing support of the INFORMS Sim-

ulation Society (I-Sim) and the ACM Special Interest Group on Simulation (SIGSIM) through their donations to the Simulation Archive Endowment is acknowledged. Annual and one-time individual contributions to the endowment have been significant, supporting activities in acquisition, organization, preservation, and access to a wide range of artifacts. The endowment has a balance of \$70,648 as of February 29, 2016.

The oral history of simulation project, supported by the National Science Foundation, continues during 2016. At least two additional interviews are planned for this year.

Guidelines for the types and characteristics of material that should be archived are to be placed on the website by August 1, 2016. Specific questions related to the identification and organization of the Archive beyond that provided on the web site should be addressed to Gwynn Thayer, Associate Head and Curator of Special Collections, NCSU Libraries (gathayer@ncsu.edu).

Members of the simulation community and others with related interests are invited to visit the Simulation Archive website, and feedback reactions, and suggestions for improvement can be sent to Dick Nance (nance@vt.edu). Additional and much needed tax-deductible donations can be made by contacting Greg Raschke, Associate Director for Collections and Scholarly Communication, at (919) 515-7188 or by e-mail at greg.raschke@ncsu.edu.

2. Financial Information for the Simulation Archive

I, Bob Sargent, was asked at the WSC'15 I-Sim Business Meeting to provide additional information to the I-Sim members regarding the finances of the Simulation Archive located at NCSU Libraries. I asked the individuals at NCSU responsible for the Archive to prepare a report on the Simulation Archive with regard to the finances of the Archive. This is their report.

Simulation Archive at the NCSU Libraries

Greg Raschke, Associate Director for Collections and Scholarly Communications and

Gwynn Thayer, Associate Head of the Special Collections Research Center

April 5, 2016

The Computer Simulation Archive housed in the Special Collections Research Center in the NCSU Libraries has created the largest archive in the world of material documenting the origins and development of the field of simulation. The Computer Simulation Archive now has a robust web presence (<http://d.lib.ncsu.edu/computer-simulation/>) and is the premier source for researchers interested in the history and development of the field of simulation. With extensive strengths in simulation as well as supporting areas of computer science and engineering in its general collection, the Libraries established the groundwork for the Archive in 1998 through discussions with leaders in the field. The initial vision for a premier special collections archive of simulation material was realized in 2003, with the donation of three large collections from Robert G. Sargent, Alan Pritsker, and Julian Reitman. Since that time, the Archive has expanded, and now includes 24 video oral history interviews as well

as other new collections, including the papers of Bruce Schmeiser, Philip J. Kiviat, and Paul F. Roth.

The Archive continues to add original print documentation, published scholarship, digitized papers, and on-line videos each year. The Libraries is able to support and grow the Archive with income from the Simulation Archive Endowment and subsidized operating support by the NCSU Libraries for the Archive by housing collections in robotic, compact shelving, processing newly acquired collections so they can be searched by researchers worldwide, digitizing selected materials, and supporting the recording and hosting of video history interviews.

Annual Growth, Maintenance, and Costs

Adding new collections, processing materials for discovery and use by scholars, and hosting the print and digital materials in the Archive include base annual costs of \$12,000 excluding the cost of Library facilities. Additional video history interviews and digitization of materials would add to that annual cost total and are outlined below. The Libraries and Simulation Archive Advisory Board member's initial goal is to bring the endowment to a principal of \$100,000. That level would generate roughly \$4,500 in annual income to support the Archive. The estimated contribution for this year from the current endowment to support the Archive is \$3,000.

Processing manuscript collections, including supplies, costs between \$118.55 and \$158.37 per linear foot, depending on the nature of the material. Processing includes the archival arrangement of the material, detailed biographical descriptions of the subject, box and folder level descriptions of the materials included in the collection, processing of all published content in the collection, and creating a finding aid that is searchable via the Web. The Libraries can assume some of those costs, but outside resources greatly increase processing efficiency. The size of the Bruce Schmeiser Papers is 32.5 linear feet, so would cost \$5,147 to process.

The Libraries plans to continue to add collections of important simulation scholars and materials that document milestones in the history of simulation — all of which will be processed at the cost estimates listed above. Based on past donation history and projected donations, the Libraries estimates adding 50 linear feet of material per year with processing costs of \$7,919 annually. In the event that additional funds are available, there other means of improving the Computer Simulation Archive.

Cost estimates for video oral histories

Video oral histories have been one of the most significant and important growth areas for the Simulation Archive,

thanks in part to a grant from the National Science Foundation and the work of Drs. James Wilson, Robert Sargent, and Richard Nance. This work can be continued, however, and supporting funds will help expand and improve this portion of the Archive. The Simulation Archive Advisory Board would like to continue to add more oral histories to the Archive in the immediate future. There are two primary costs for conducting video oral histories: the (library) processing cost of recording and editing the interview, which is approximately \$528 or more per interview, and the interview cost which varies significantly, depending on the location of the interview. This latter cost is usually the most expensive cost of the two.

Cost estimates for digitization

The Libraries would like to digitize portions of the Simulation Archive, focusing those efforts on rare and unique materials unavailable elsewhere. Digitization typically costs 75 cents a page for unbound material. At this rate, one graduate student paid \$15 an hour working part-time (15 hours a week) for one semester can generate approximately 4,800 scans, for a total cost of \$3,600. Overall digitization costs will depend on the growth and overall size of the Archive as well as the size and condition (bound or unbound) of the materials undergoing digitization.

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EDITORS' REPORTS

Report on *IIE Transactions*

Raghu Pasupathy, Simulation Department Editor

I would like to thank the Associate Editors in the IJET Simulation Area: Guzin Bayraksan, Dashi Singham and Jiqiao Hu. For the 12-month period ending March, 2016 there were 18 new submissions with 6 rejections, 8 under review/revision, and 4 acceptances. The goal of the IJET Simulation Department is the rapid dissemination of high-quality methodological and application-related simulation research. Submission of papers on all aspects of simulation are encouraged, including but not limited to analysis and modeling methodology, software, and surveys. Specific topics of interest include simulation

optimization, random number and variate generation, input and output analysis, and variance reduction. We are particularly interested in pressing questions that lie on the boundary of stochastic programming and simulation optimization, parallelization methods for large-scale simulation optimization, and agent-based simulation, among others. Software-related papers might discuss new developments in the technology, state-of-the-art code, or interesting special-purpose programs.

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Report on *INFORMS Journal on Computing*

Marvin Nakayama, Former Simulation Area Editor

After serving for about 9 years as the simulation area editor for the INFORMS Journal on Computing (IJOC), I stepped down from the position in January. The new IJOC simulation area editor is Bruno Tuffin, who I'm sure will do an exceptional job.

For the one-year period ending January 5, 2016, which is when Bruno took over, the Simulation Area of the INFORMS Journal on Computing (IJOC) received 17 new submissions and 14 revised manuscripts. During this period, 2 papers were accepted and 14 rejected. The average turnaround time over all rounds of submissions completed during this period was 83.3 days. I'd like to thank the associate editors (Jim Calvin, Seong-Hee Kim, Raghu Pasupathy, and Bruno) for their truly outstanding

work, which made my job much more manageable.

The IJOC Simulation Area covers all computational aspects of stochastic simulation. It seeks high-quality research on the computational aspects of simulation model building, simulation data structures, simulation modeling and experiment environments, stochastic input modeling, random-variate generation, output analysis, simulation-based optimization, variance-reduction methods for simulation experiments, and other aspects of simulation modeling, experimentation, and analysis.

Submissions to the Simulation Area should not merely use simulation as a tool for generating experiments to test another methodology (these manuscripts should

instead be submitted to the IJOC area for which the methodology applies), nor should they only present experimental results from a simulation program. Rather, manuscripts submitted to the area must make a significant contribution to the field of stochastic simulation, as described in the previous paragraph. Complete instructions for preparing manuscripts are available at <http://joc.pubs.informs.org>.

Submissions must be done electronically through Manuscript Central:

<http://mc.manuscriptcentral.com/ijoc>

Marvin K. Nakayama
Former Simulation Area Editor, INFORMS JOC
Computer Science Department
New Jersey Institute of Technology
Newark, NJ 07102
marvin@njit.edu, phone: +1-973-596-3398

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Report on the *Journal of Simulation*

Christine Currie, John Fowler, Loo Hay Lee, and Simon J. E. Taylor, Editors

The Journal of Simulation is celebrating its tenth birthday this year with a range of different activities. We are most proud of the series of articles from our Advisory Board that are appearing in each of the 10th volume issues. Issues 1 and 2 include “Some tactical problems in digital simulation’ for the next 10 years” by Barry Nelson and “Everything You Need to Know about Agent-based Modeling and Simulation” from Chick Macal. We will also be running a panel session at WSC 2016 and the UK Simulation Workshop 2016. Look out for our free virtual issue of highlight papers from the last ten years, which should be available on the JoS website soon.

Current acceptance rate is estimated to be about 18%; time between submission and the first decision is on average just under 60 days.

We have three special issues in the pipeline: a selection of papers from the German ASIM conference to appear in issue 2 of volume 10; data driven and large-scale distributed simulations; simulation in production and logistics. Anyone interested in editing a special issue

should contact one of the editors.

Journal of Simulation (JOS) aims to publish both articles and technical notes from researchers and practitioners active in the field of simulation. In JOS, the field of simulation includes the techniques, tools, methods and technologies of the application and the use of discrete-event simulation, agent-based modelling and system dynamics. JOS encourages theoretical papers that span the breadth of the simulation process, including both modelling and analysis methodologies, as well as practical papers from a wide range of simulation applications in domains will examine a wide range of domains including for example, manufacturing, service, defense, health care and general commerce. JOS will particularly seek topics that are not “mainstream” in nature but interesting and evocative to the simulation community as outlined above.

For more information, please visit the website:

<http://www.palgrave-journals.com/jos/index.html>

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Report on *Management Science*

Noah Gans, Stochastic Models and Simulation Department Editor

Submissions:

Please submit manuscripts electronically via Management Science’s Manuscript Central Site:

<http://mc.manuscriptcentral.com/ms>

Editorial Activity in the Department:

The statistics for Management Science’s SMS Department for the past six months (Oct 1, 2015 to March 30, 2016) are as follows:

	New Submission	Revision	Total
Reject	25	0	25
Major revision	3	2	5
Minor revision	1	2	3
Accept	0	3	3
In-process	7	4	11
Total	36	11	47

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Report on Operations Research

Stephen E. Chick, Operations Research Simulation Area Editor

Activity in the Simulation Area of Operations Research (1 Oct 2015 to 19 March 2016):

For the period specified of approximately 5.5 months, there were 9 new submissions and 8 resubmissions. During this period there were 6 rejections, 9 papers continue under review, 6 revise-and-resubmit decisions and 2 acceptances. Of the editorial decisions made in this period, 2 were late (4-6 months from date of submission) and 1 was very late (180 days or more). I would like to thank the Associate Editor team, Russell Barton, Peter Frazier, Peter Haas, Jeff Hong, Jiaqiao Hu, Henry Lam, and Raghu Pasupathy, for their conscientious service to the journal.

The simulation area of Operations Research looks for significant work in simulation modeling, methodology

and applications that advance the knowledge and practice of simulation. In addition to the traditional research areas, we welcome contributions that develop the interface of simulation with other methodological areas, e.g., optimization and applied probability, and with application areas, e.g., service industries like healthcare and financial engineering, manufacturing, and business dynamics. In general, papers should be of interest to a broad O.R. audience, and not just to the simulation community, although we certainly welcome papers that represent major theoretical progress.

Please submit papers electronically via the Manuscript Central O.R. Web site:

<http://mc.manuscriptcentral.com/opre>

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CONFERENCE ANNOUNCEMENTS

2016 INFORMS Conference on Business Analytics & Operations Research

April 10–12, 2016, Orlando, FL

John Shortle (source: <http://meetings2.informs.org/wordpress/analytics2016/>)



“Analytics 2016 will bring together nearly 1,000 leading analytics professionals and industry experts (executives, analysts, managers, researchers, data scientists, modelers, etc.) to share ideas, network and learn about a range of topics including Analytics Leadership & Soft Skills, Decision & Risk Analysis, Fraud Detection & Cyber Security,

Healthcare, Internet of Things, Marketing Analytics, Revenue Management & Pricing, Sports & Entertainment, and Supply Chain Analytics with special emphasis this year on Big Data and Unstructured Data.”

The conference features long format talks describing the complete story of successful analytics projects. The conference venue is the Hyatt Regency Grand Cypress, Orlando, FL.

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OR Society 8th Simulation Workshop (SW16)

April 11 – 13, 2016, Stratford, Worcestershire, UK

John Shortle (source: <http://www.theorsociety.com/Pages/Conferences/SW16/SW16.aspx>)

“The biennial OR Society Simulation Workshop brings together practitioners and academics working in the field of discrete-event simulation and related fields. It provides an opportunity to exchange ideas on the current and future state-of-the-art in simulation and modelling. The program consists of a key note presentation, panel

discussion and parallel streams. Breaks between sessions and the conference dinner provide an excellent opportunity for networking. The exhibition area includes poster display and some of the latest developments in simulation software tools.”

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INFORMS International Conference

June 12-15, 2016, Hilton Waikoloa Village, Hawaii

John Shortle (source: <http://meetings2.informs.org/wordpress/2016international/>)



“The 2016 INFORMS International Meeting is located in a stunning location with unparalleled beauty and a unique cultural heritage. Experience a rich program of talks, keynote speeches, and tutorials on leading edge research topics and industry practices at world-class

meeting facilities in a resort setting. Hosted by INFORMS, this is one of the largest international conferences in operations research and management science.”

The meeting will be held at the Hilton Waikoloa Village Resort. For further information and updates, see [this link](#).

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INFORMS Annual Meeting

November 13–16, 2016, Nashville, TN

John Shortle (source: <http://meetings2.informs.org/wordpress/nashville2016/>)



The INFORMS Annual Meeting will be held in Nashville, TN, Nov. 13-16, 2016. The conference venue is the Music City Center and the Omni Nashville. I-Sim will

be sponsoring a simulation track at the conference. The deadline for organizing a sponsored session in the simulation track has passed. However, you can still submit contributed talks. The deadline for abstract submission is May 15, 2016. The I-Sim business meeting will be held on Sunday evening. More information about the annual meeting can be found at <http://meetings2.informs.org/wordpress/nashville2016/>.

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2016 Winter Simulation Conference

December 11–14, 2016, Washington, D.C.

John Shortle (source: <http://meetings2.informs.org/wordpress/wintersim2016/>)



“The Winter Simulation Conference (WSC) is the premier international forum for disseminating recent advances in the field of system simulation. In addition to a technical program of unsurpassed scope and quality, WSC provides the central meeting place for simulation practitioners, researchers, and vendors working in all disciplines in industry, service, government, military and academic

sectors.”

WSC 2016 will be held in Arlington, VA, just outside of Washington, D.C., at the Crystal Gateway Marriott. The theme of the conference is “Simulating Complex Service Systems.” The keynote address will be given by Scott E. Page, Leonid Hurwicz Collegiate Professor of Complex Systems, Political Science, and Economics at the University of Michigan. The conference will feature two Titans of Simulation talks by Edward H. Kaplan and Susan M. Sanchez. The I-Sim business meeting will be on Tuesday evening.

For additional information, see

<http://meetings2.informs.org/wordpress/wintersim2016/>.

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2015 AWARD RECIPIENTS

Bernard P. Zeigler Receives the 2015 Lifetime Professional Achievement Award

Sigrún Andradóttir, Douglas Morrice, and Bruce Schmeiser



The Lifetime Professional Achievement Award is the highest honor given by the Institute for Operations Research and the Management Sciences' Simulation Society. The purpose of the award is to recognize major contributions to the field of simulation that are sustained over most of a professional career, with the critical consideration being the total impact of those contributions on computer simulation.

The award committee, consisting of Sigrún Andradóttir, Douglas Morrice, and Bruce Schmeiser, is pleased to select Professor Bernard P. Zeigler for the INFORMS Simulation Society 2015 Lifetime Professional Achievement Award.

To be chosen for this award, an individual's contributions may be in one or more of the following areas: research, practice, knowledge dissemination, software or hardware development, professional service, and field status or visibility advancement. Professor Zeigler has made significant and sustained contributions in all of these areas for over 40 years.

Starting in the 1960's and 70's, his research on modeling formalisms grounded in general systems theory provided an overall framework for the development of simulation programming languages. One of his nominators points

out as "especially influential" the concepts of hierarchical modeling, modular modeling, the separation of model, simulator, and experimental frame, and the modeling formalism Discrete Event System Specification (DEVS) for discrete event simulation programming languages. All his nominators point out that since his research was so fundamental to simulation modeling, it was leveraged by Professor Zeigler and many others on problems in simulation programming language development, simulation verification and validation, and high level architecture for distributed computer simulations. His work has also been applied across a diverse number of fields including the military, forestry, biology, and healthcare.

Regarding knowledge dissemination, it is difficult to match Professor Zeigler's record. Based on the generality of his work, several of his nominators point out that he has made several seminal contributions in the fields of system simulation, computer science, and systems engineering. Professor Zeigler's hundreds of scholarly publications in journals, proceedings, and books make him one of the most highly cited scholars in our field. Of his book *Theory of Modeling and Simulation: Integrating Discrete Event and Continuous Complex Dynamic Systems* (first edition, 1976; second edition, 2000), which has received close to 5000 citations on Google Scholar, a nominator writes "In the past 50 years, no other single publication in the simulation literature has had such a large impact on both the practice and theory of system simulation." Another one of his books, *Multifaceted Modelling and Discrete Event Simulation* (1984), received the 1988 TMS College on Simulation Outstanding Publication Award. In addition, Professor Zeigler has given dozens of keynote talks and plenary sessions at conferences and meetings worldwide. Over his career, he has advised over 40 doctoral students with an almost even split between academic and non-academic placements. Lastly, many of the nominators considered Dr. Zeigler's works classics and required reading for all their Ph.D. students.

Professor Zeigler has served on nine editorial boards including as Editor-in-Chief of *SIMULATION: Transactions of The Society for Modeling and Simulation International* (1995-2000) and founding editor of *Journal of Defense Modeling and Simulation* (2003-2008). The high quality

of his service is captured in the following comment by one of his nominators “I refereed numerous papers for Professor Zeigler . . . , and I was profoundly impressed by his conscientious service to the readers and authors of both these journals. An editor-in-chief has to serve numerous constituencies with conflicting interests, and Professor Zeigler has provided the ideal role model for such a position while significantly advancing the journals under his editorship.”

The arguments for Professor Zeigler’s contribution to the advancement of the status or visibility of the field are nicely summarized by one nominator who states “He (Professor Zeigler) provided the first theory . . . for simulation . . . Because his theory is based on general system theory, he is able to promote simulation into larger fields such as Artificial Intelligence and relate it to other types

of modeling.”

Among his many awards and honors, Professor Zeigler was named an IEEE Fellow in 1995 and received the Society for Computer Simulation’s McLeod Founder’s Award in 2000, both in recognition of his contributions to discrete event simulation.

Taken together, Professor Zeigler’s contributions to the field of computer simulation have been broad, impactful, and sustained. The selection committee is honored to present Professor Bernard P. Zeigler with the INFORMS Simulation Society 2015 Lifetime Professional Achievement Award.

Professor Zeigler’s speech was recorded by the I-Sim Communications Editor, and is available online at <https://www.youtube.com/watch?v=387IjNAX6DI>.

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Enver Yücesan Receives the 2015 Distinguished Service Award

Peter J. Haas, Jeffrey A. Joines, and James R. Wilson



The INFORMS Simulation Society (I-Sim) presented its 2015 Distinguished Service Award to Enver Yücesan, Professor of Operations Management at INSEAD, for his outstanding contributions in service over the past twenty four years to I-Sim, the Winter Simulation Conference (WSC), and the broader simulation community. A presentation of the award took place on December 6, 2014, during the opening session of the 2015 WSC in Huntington Beach, California; an extended re-presentation of the

award took place on December 8, 2015, during the I-Sim business meeting held at WSC.

I-Sim established its Distinguished Service Award in 1986 to recognize each year at most one individual who has provided “long-standing, exceptional service to the simulation community . . . acquitted with distinction.” In 2015 the award selection committee consisted of Peter J. Haas (IBM Research Division), Jeffrey A. Joines (North Carolina State University), and James R. Wilson (North Carolina State University), with Jim completing his final year of service on the committee and Peter serving as chair.

Over a 24 year career, Enver Yücesan has indeed rendered exceptional service. Some of Enver’s notable contributions include:

- *Co-organizing the first I-Sim Research Workshop in 2007.* This series of workshops has proven highly successful at providing a high-quality forum for interactive discussion of early-stage research, providing important moral support especially to simulation researchers working in professional isolation.
- *Extensive service to WSC.* Enver has served WSC in almost every possible capacity, organizing the PhD Colloquium in 1995 and 1996 and serving as both 2002 Proceedings Co-Editor and 2010 Program Chair, in addition to serving on the Program Committee and organizing numerous conference sessions and tracks. Not surprisingly, Enver re-

ceived the WSC Board of Directors Distinguished Service Award in both 2009 and 2010.

- *Building the international simulation community.* Enver has been described as a “key player” in this effort because of his activities in organizing professional conferences around the world. He was General Chair (twice) and Program Chair for the EuroSim MultiConference, as well as a five-time PC member for the MOSIM conference in Europe and Africa. Overall he has served on at least 17 conference committees, including PADS, ASIM, and others.
- *Editorial work.* As Editor of *IIE Transactions*, Enver has been described by a colleague as “instrumental in significantly enhancing the stature of IIET’s output in simulation research.” He has also served on six additional editorial boards, including *Management Science* and *INFORMS Journal on Computing*.
- *Teaching and education.* Starting from when he was

a PhD student at Cornell, where he won the Outstanding TA Award an unprecedented three times, Enver has shown a long-standing dedication to simulation education and genuine engagement with students. For example, his keynote talk at the WSC PhD colloquium has been described as “exceptionally thoughtful and motivating.” More recently, he has served twice as Chair of the Department of Technology and Operations Management, and in 2014 received an award for Teaching Excellence in Executive Education.

Beyond his specific contributions, what truly distinguishes Enver is his universally admired collegial style, which has been described variously as humble, altruistic, generous, and more. In the words of a colleague, “Enver epitomizes the characteristics of kindness, friendliness, and considerate professionalism that make our community so special.”

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Russell Barton, Barry Nelson, and Wei Xie Receive the 2015 Outstanding Simulation Publication Award

Dave Goldsman, L. Jeff Hong, and Jeremy Staum



The award committee, consisting of David Goldsman, L. Jeff Hong, and Jeremy Staum, presented the 2015 Outstanding Simulation Award to Russell Barton, Barry Nelson, and Wei Xie for their papers:

- Russell R. Barton, Barry L. Nelson, and Wei Xie (2014). “Quantifying Input Uncertainty via Simu-

lation Confidence Intervals,” *INFORMS Journal on Computing* 26(1): 74–87.

- Wei Xie, Barry L. Nelson, and Russell R. Barton (2014). “A Bayesian Framework for Quantifying Uncertainty in Stochastic Simulation,” *Operations Research* 62(6): 1439–1452.

Accounting for uncertainty in the inputs to a simulation model is an important problem in simulation experiment design and analysis. These papers provide practical and theoretically compelling solutions to the problem, while being extremely well-written and accessible. The papers provide methods to generate a bootstrap confidence interval or a Bayesian credible interval for the true performance of the simulated system given the unknown true values of the inputs. To reduce the computation cost of doing this, the proposed methods harness the power of stochastic kriging metamodeling. This avoids relying on a simpler metamodel, such as a linear metamodel, to be accurate. There is also an advance in justifying the use of bootstrapping because the metamodel is smoother than simulation output.

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Guy Feldman and Mohammad Dehghanimohammadabadi Receive the 2015 WSC Ph.D. Colloquium Best Student Paper Awards

Susan R. Hunter, Communications Editor



The INFORMS Sim Best MS/OR-focused paper is:

“Multi-objective simulation optimization on finite sets: optimal allocation via scalarization” by Guy Feldman, Purdue University. His co-authors are Susan R. Hunter and Raghu Pasupathy.

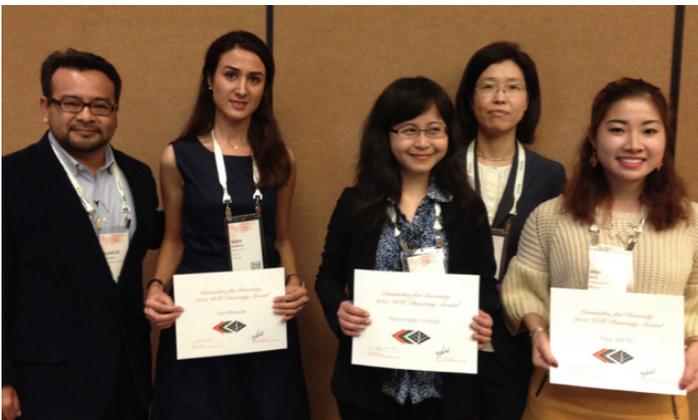
The ACM SIGSIM Best CS-focused paper is:

“Tradeoffs between Objective Measures and Execution Speed in Iterative Optimization-based Simulation (IOS)” by Mohammad Dehghanimohammadabadi. His co-author is Thomas K. Keyser.

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Thuy Anh Ta, Niniet Indah Arvitrida, and Sara Minaeian Receive the 2015 CUMW WSC Diversity Awards

Mauricio Cabrera, Chair of the Committee on Underrepresented Minorities and Women (CUMW)



The 2015 Committee on Underrepresented Women and

Minorities (CUMW) Diversity Award winners are Thuy Anh Ta (University of Montreal), Niniet Indah Arvitrida (Loughborough University), and Sara Minaeian (The University of Arizona).

To cultivate the interest and encourage the participation of underrepresented minorities and women in the field of simulation, the INFORMS Simulation Society is proud to award sponsorships to assist graduate students from these population groups in the costs of attending Winter Simulation Conference (WSC) each year. The CUMW is looking forward for more high-quality applications for the coming 2016 WSC meeting.

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2016 CALLS FOR NOMINATIONS & PROPOSALS

Call for Proposals: I-Sim Research Workshop

Seong-Hee Kim, I-Sim President

Dear I-Sim members,

Given the popularity of the past INFORMS Simulation Society Research Workshops, we would like to continue

this tradition and hold a workshop in 2017. We are therefore soliciting proposals from potential organizers (i.e., chairs and co-chairs). If you are interested in organizing the 2017 I-Sim Research Workshop, please send me

a brief proposal at skim@isye.gatech.edu by April 30, 2016. The proposal should be at most two pages, and briefly describe the following items:

1. The proposed venue and suggested dates.
2. The proposed organizers (chair and co-chairs).
3. Potential sources of local administrative and financial support.
4. A short list of local academic departments and industrial groups who are active in OR/MS-oriented simulation research and applications.
5. Any other factors that would help ensure the success of the workshop.

With respect to dates, the goal is to avoid, as much as possible, conflicts with other INFORMS-sponsored conferences and workshops, as well as with major conferences

in the areas of simulation and applied probability. This can be hard to do in advance, so adjustments may need to be made at a later date.

You can find last workshop details from the following link:

<https://www.informs.org/Community/Simulation-Society/Other-Conferences-and-Workshops/Society-Research-Workshop2>

Please feel free to contact me if you are interested in organizing the 2017 I-Sim Research Workshop. I would be happy to answer any questions you might have.

Best regards,

Seong-Hee Kim

Informs Simulation Society, President

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Call for Nominations: 2016 Lifetime Professional Achievement Award

Douglas Morrice, Marvin Nakayama, and Bruce Schmeiser (Chair)

To recognize major contributions to the field of simulation that are sustained over most of a professional career, with the critical consideration being the total impact of those contributions on computer simulation, the INFORMS Simulation Society (INFORMS-Sim, <https://www.informs.org/Community/Simulation-Society>) has established the Lifetime Professional Achievement Award (LPAA). This award can be given at most once annually. An individual's contributions may fall in one or more of the following areas:

- contributions to research,
- contributions to practice,
- dissemination of knowledge,
- development of software or hardware,
- service to the profession, and
- advancement of the status or visibility of the field.

Anyone is eligible to win the award, although individuals selected for this award should normally be in or near their retirement. The award may be received posthumously. Nominations may be submitted by anyone (including self nominations), but they may not be made anonymously. The burden of offering evidence of merit falls on the nominator. Each nomination should include:

- the nominee's complete resumé;

- a clear-cut, comprehensive description of the nominee's major contributions to the profession,
- with complete supporting documentation; and
- at least three letters of endorsement providing evidence of the significance and magnitude of the nominee's professional achievements.

If given, the award will be presented at the Winter Simulation Conference in Arlington, Virginia, December 11–14, 2016 (www.wintersim.org). A list of previous award recipients, and more details about the award process, can be found at <https://www.informs.org/Community/Simulation-Society/Awards/Lifetime-Professional-Achievement-Award>.

The LPAA Award Committee consists of Douglas Morrice, Marvin Nakayama, and Bruce Schmeiser (Chair, bruceschmeiser@gmail.com). The nomination should be submitted as a PDF file attachment to an email to the committee chair. At least two weeks before the submission deadline of September 1, 2016, nominators should alert the committee chair by email of forthcoming nominations. Any questions should be directed to the committee chair.

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Call for Nominations: 2016 Distinguished Service Award

Jeffrey A. Joines

To recognize individuals who have provided long-standing, exceptional service to the simulation community, the INFORMS Simulation Society annually sponsors a Distinguished Service Award, given to at most one person each year. This award is for sustained service to the simulation community over at least fifteen to twenty years or longer, and acquitted with distinction. The concept of service for this award does not include teaching or research contributions. Areas of volunteer service include, for example: (i) elected offices in simulation societies; (ii) editorial responsibilities such as area editor or editor-in-chief, for simulation; (iii) responsibilities such as program chair, proceedings editor, general chair, or member of the program or organizing committee, for conferences involving simulation; (iv) appointed positions for simulation-related activities, such as newsletter editor or serving on committees; and (v) undertakings and actions that promote simulation.

Nominations for the award to be given in 2016 can be made by anyone and should be sent by September 1, 2016, to the Distinguished Service Award Committee

Chair:

Jeffrey A. Joines

Associate Professor and Associate Department Head of Textile Engineering, Chemistry, and Science

jeffjoines@ncsu.edu

The other committee members are Peter Hass (IBM Almaden Research Center) and Enver Yücesan (INSEAD).

Letters of nomination should identify the nominee's areas of exceptional service, detailing the activities for which the nominee is believed to deserve this award. The nominator has the responsibility for justifying why the nominee should receive this award.

If given, the award will be presented at the Winter Simulation Conference, in Arlington, Virginia, 11-14, 2016. <http://www.wintersim.org>. A list of previous winners is available at <https://www.informs.org/Community/Simulation-Society/Awards/Distinguished-Service-Award/Winners>.

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Call for Nominations: 2016 Outstanding Simulation Publication Award

Jeff Hong

To recognize outstanding contributions to the simulation literature, the INFORMS Simulation Society annually sponsors an Outstanding Simulation Publication Award. Nominations for the award to be given in 2016 should be sent by September 1, 2016 to the Awards Committee Chair:

Jeff Hong

Department of Management Sciences

City University of Hong Kong

jeffhong@cityu.edu.hk

The other committee members are Barry Nelson and Jeremy Staum.

Anyone is eligible to win the award. Journal articles, proceedings articles, books, book chapters, and monographs copyrighted in 2013, 2014 and 2015 and written in English are eligible for the award. Technical reports, research memoranda, working papers, theses, and dissertations are not eligible. Nominations for the award may be made by anyone, including the author(s), but they

may not be made anonymously.

Nominations should include:

- a copy of the written work, including all bibliographical information (in the case of books, the Awards Committee will obtain copies);
- a short statement suitable for reading at the award ceremony if the work is chosen; and
- any other information thought relevant by the nominator.

If given, the Outstanding Simulation Publication Award will be presented at the Winter Simulation Conference, Arlington, Virginia, December 11-14, 2016, <http://www.wintersim.org/2016/>. The Award carries with it a cash prize of \$500.

A list of previous winners is available at the website <http://www.informs.org/Community/Simulation-Society/Awards/Best-Simulation-Publication-Award/Winners>

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Call for Nominations: 2015 CUMW WSC Diversity Award

Wei Xie

In order to improve outreach and diversity among young researchers in the field of simulation, the INFORMS Simulation Society is proud to award sponsorships each year to assist eligible graduate students to attend the Winter Simulation Conference (WSC). We especially encourage applications from women, underrepresented minorities, international students, or students who may add to the diversity of the community in other ways.

In 2015, each awardee received an honorarium of \$500.00. The WSC Diversity Award Committee is looking forward to receiving more high-quality applications for the coming 2016 WSC meeting.

Please download the following application form with

instructions on how to apply. A complete application package consists of this form, a letter of intent written by the applicant, and a letter of recommendation written by an advisor.

The deadline for submission is Thursday, September 1, 2016. For questions, please contact Wei Xie at wscdiversityaward@gmail.com.

For information on eligibility and how to apply, please visit our website

<https://www.informs.org/Community/Simulation-Society/Awards/WSC-Diversity-Award2/Call-for-Nominations>

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I-SIM BUSINESS MEETING MINUTES

INFORMS Simulation Society Business Meeting: 2015 Winter Simulation Conference, Huntington Beach, CA, December 8, 2015

Peter Frazier, Secretary

For details on many items from these minutes, see the Fall 2015 and Spring 2016 I-Sim newsletter at <https://www.informs.org/Community/Simulation-Society/Newsletter>.

At 6:23pm, Seong-Hee Kim, President of the Society, called the meeting to order after all attendees introduced themselves.

At 6:25pm Peter Frazier motioned to approve the minutes from INFORMS 2015, Christos Alexopolous seconded the motion, and the motion to pass the minutes was approved.

At 6:26pm John Shortle, Vice President of the Society, presented upcoming conferences. For details see the fall newsletter.

At 6:27pm Raghu Pasupathy, Treasurer of the Society, summarized the 2015 INFORMS Simulation Research Workshop, stating: by all accounts it was a great success, though it engendered more questions than answers.

At 6:28pm Seong-Hee Kim announced that I-Sim is receiving proposals for locations for the 2017 INFORMS Simulation Society Workshop. They would like to receive proposals by April 30, 2016. The location of the

workshop will be announced in June 2016.

At 6:29pm Peter Frazier, Secretary of the Society, presented the secretary's report. Remember to renew! For detailed numbers see the fall newsletter.

At 6:29pm Raghu Pasupathy presented the Treasurer's report. I-Sim is still holding \$40K in emergency funds for WSC, and asked that a line item be added to the treasurer's report.

At 6:30pm Steve Chick presented the Nominations Committee's report. If you like to run, or have nominations, please let Steve know. The Nominations Committee will assemble the ballot and put it in the newsletter.

At 6:32pm Young-Jun Son presented the report from the Recruiting and Retention of Members Committee. At the 2015 INFORMS Annual meeting, there were approximately 50 people at the breakfast, and 4 people at the I-Sim table. At the 2014 INFORMS Annual meeting, There were approximately 60 people at the breakfast, and 5 people at the I-Sim table. Young-Jun is soliciting feedback from members on ways to enhance membership. Remember to renew!

At 6:34pm Theresa Roeder presented the report from

the Communications Committee. She discussed a proposed change to the communications committee. Since the switchover to the latex newsletter, and the INFORMS website, the communications committee has less work. They would like to propose making the committee consist only of the newsletter editor and website administrator, smaller than it was before. The membership supported this idea.

At 6:36pm Russell Barton presented the report from the Subdivisions Council.

- The Self-Reflection Subcommittee is working on communications, and is recommending to the subdivisions council that people associate with each subdivision to avoid the bystander effect.
- The Collaboration subcommittee had a speed-dating mixer to try to encourage communication but only three people attended. I-Sim overlaps with Optimization, QSR, Data Mining, Computing Society, and so there is an opportunity for collaboration there. He suggested that co-location of the conference could be a useful way to encourage collaboration.
- The Subdivisions council is asking if I-Sim is willing to share in the cost to offer INFORMS members a free a subdivision membership to I-Sim, and what percent of each member's free dues we would be willing to subsidize. The downside is that each person who is currently a member would generate less revenue for I-Sim. The upside is that we would get more members, who would bring additional revenue, because we would only subsidize a fraction of their free membership. The membership discussed this:
 - Lee Schruben pointed out that retention might be the issue, because we lose about 200 members each year.
 - Bruce Schmeiser asked what fraction of our budget comes from membership dues. John Shortle answered that it is about \$5K in dues and about \$10K from WSC, but the conference is highly variable.
 - Susan Sanchez said that she would like to subsidize higher than 25% of the membership because it is a growth opportunity.
 - A quick survey was taken on the membership's desired level of subsidy, for a one year free membership. Three options were offered, higher than 25%, 25%, and less than 25%. Most of the membership voted for higher than 25%, with a handful voting for 25%, and two voting for less than 25%. The conclusion was

that there is lots of support for subsidizing membership for one year.

At 6:44pm, John Shortle gave an update on the National Modeling and Simulation Coalition (NMSC) Memorandum of Understanding (MOU). Based on the survey results, the I-Sim leadership has decided not to sign the MOU, but is open to informal engagement. There were no comments from the membership.

At 6:46pm, Dave Goldsman presented on the WSC Foundation. The WSC Foundation is dedicated to the perseverance of the Winter Simulation Conference in times of trouble. A joint venture agreement between the sponsors has reduced its importance because there is now full financial backing (\$300K over 5 years). As a result, the WSC Foundation has been searching for how to use its money most effectively. Interested parties may make solicitations, and the WSC Foundation is willing to provide a grant or loan for special projects. The WSC Foundation has awarded funds to one initiative in the past, and is currently considering a proposal from Steve Chick at WSC 2016 for approximately \$4,000 to foster cross-fertilization with other disciplines. Sponsoring initiatives of this sort this rather than having the money cut down due to inflation is appealing to the foundation. Dave Goldsman also announced a minor amendment to the bylaws: they are now a non-profit, and to allow this they have adopted a formal home within INFORMS. There were no comments from the membership.

At 6:51pm Bob Sargent presented on the Simulation Archive. He is very appreciative for past support by I-Sim and SIGSIM.

- The balance of the Simulation Archive is \$71K.
- The Simulation Archive is performing significant work under an NSF Grant, with Jim Wilson as PI, which ends August 2016:
 - 24 interviews have been completed and posted to date
 - 3 interviews are planned for 2016.
 - There has been a significant increase in traffic as a result.
- There was an advisory committee meeting at NCSU on Nov 3:
 - They discussed NSF grant work.
 - They discussed cataloging of contributed materials.
 - They visited the new Hunt Library (there is a Jim Wilson room!).
 - They discussed future efforts
 - * They have a goal of \$100K endowment for 2017.

- * They identified individuals to ask for materials for archive.
- * They desire mid-career “hot shots” to save materials to archive, or to send it to them.
- Donations are welcomed to the endowment (tax deductible). Email greg.raschke@ncsu.edu.

At 6:54pm, Bob Sargent moved that I-Sim donate \$5K to the simulation archive. Jim Wilson seconded this motion. The membership then discussed the motion:

- Barry Nelson asked about the goal of the endowment. Earnings from the endowment support the operation of the archive, and Barry asked whether \$100K is the appropriate endowment size to support operation of the archive. He asked how the earnings that would result from a \$100K endowment relate to the cost of operating the archive.
- Bruce Schmeiser asked about these costs: how much does NCSU charge to operate the archive, and is it for service, or a flat fee?
- Jim Wilson answered that the NCSU library is actually not currently taking out any money from the endowment, and has absorbed all of the costs above the NSF grant.
- Bob Sargent added that the NCSU library is contributing several thousand dollars per year, and has been very supportive.
- Shane Henderson stated that much of the membership is very supportive, and that at the same time it is hard to vote for the allocation of the money before first understanding how much money is ultimately required.
- Bob Sargent offered to find out what the costs are, so that the membership can understand how much money is required.
- Jim Wilson pointed out that once the endowment reached a threshold of \$20K, the archive became open to the public. This happened some time ago. Also, there is a continuing aggressive effort to recruit materials from people within simulation.
- Bruce Schmeiser proposed an amended motion requesting a short statement in a forthcoming newsletter about the mechanics and costs of operating the archive. Pierre L’Ecuyer seconded the motion.
- It was pointed out that as an amendment, the amended motion added the request for a statement about the operating cost, but would not delay the decision about whether to allocate the \$5K. If passed, the \$5K would be allocated immediately.
- Steve Chick asked about the I-Sim account balance. Raghu Pasupathy and John Shortle stated that the

account balance is roughly \$118K minus approximately \$21K which remains in I-Sim’s account, but belongs to the liability account for WSC’s sponsors. There are also additional incoming expenses.

- Lee Schruben suggested that we should do due diligence to understand more before allocating the money.
- Barry Nelson suggested that we table both motions rather than voting on them, as a way to delay the decision until obtaining more information, which the amended motion did not do.
- Peter Haas stated that although past motions for donating \$5K to the simulation archive used to pass easily, the current situation is different because the Simulation Archive endowment is now much larger than in the past.
- The membership then voted on the amended and original motions.
 - The membership first voted on the amended motion: 6 were in favor, and 15 were against. The amendment was defeated.
 - The membership then voted on the original motion: again, 6 were in favor, and 15 were against. The original motion was defeated.
 - Although the original and amended motions were defeated, the feeling was that the membership continues to be very receptive to the Simulation Archive, and merely wished to receive more information before making a decision.
- Based on this vote, and the preceding discussion, it was decided that more information about the operating costs of the archive would be obtained and provided to the membership.

At 7:16pm, we turned to Journal Editor reports.

- Marvin Nakayama reported on *Journal on Computing*.
- Steve Chick reported on *Operations Research*. Stefanos Zenios told the department editors about conference papers. In simulation, in the past, it has been standard practice to allow submitting a paper to OR that appeared in a conference. In the past, this has not been true in other areas. There is now a clarified policy: make sure your journal paper cites your conference (WSC) paper, and states what is different from the conference paper. Also in your submission letter highlight this fact, and state what is different.
- Raghu Pasupathy reported on *IIE Transactions*.
- Lin Uhrmacher reported on *ACM TOMACS*. There is a new bidirectional relationship with ACM SIGSIM

PADS. Every year we will have a special issue, on the state of the art and open challenges. There is also a new reproducibility initiative. Papers should contain themselves or in their supplementary material sufficient information to reproduce the experiments. There is an option that people can enter their computational results for reproducibility certification. In this certification, as soon as it is accepted (subject to minor revisions), *ACM TOMACS* staff will assign an additional reviewer who works with you to reproduce all of the results that are in your paper. There will also be a special 2 page report with the reviewer that will appear in *TOMACS*.

- Loo Hay Lee reported on the *Journal of Simulation*. Next year is the 10 year anniversary. Each volume will have someone who will write about the history.
- Doug Morrice reported on *Interfaces*.

At 7:24pm, Seong-Hee Kim called for new business. Christos Alexopoulos stated that WSC is in the black, and registration is 655 plus or minus 2.

At 7:24pm the award session started.

- At 7:25pm Andrea D'Ambrogio presented the awards from the WSC'15 Colloquium
 - There were 17 presentations by PhD students out of 21 submissions.
 - Students received funding for WSC'15 PhD colloquium.
 - The I-SIM WSC best student paper award went to Guy Feldman, co-authored by Susan Hunter and Raghu Pasupathy
- At 7:30pm Mauricio Cabrera-Rios presented the WSC Diversity Award to Thuy Anh Ta, Ninet Andah Arvitrida, and Sara Minaeian. They each got a \$500 check and a certificate of appreciation.
- At 7:31pm Jeremy Staum presented the Outstanding Simulation Publication Award to Russell Barton, Barry Nelson, and Wei Xie for two papers about quantifying input uncertainty.
- At 7:35pm Peter Haas presented the 2015 I-Sim Distinguished Service Award to Enver Yucesan
- At 7:42pm the membership gave big applause to Steve Chick (program chair of WSC 2016) and the Jesus Jimenez (business chair of WSC 2016).
- At 7:42pm Doug Morrice presented the lifetime professional achievement award to Bernard Zeigler. Bernard graciously accepted the award, and shared some aspects of his life and research with the membership. Susan Hunter videotaped the speech, which is available online at <https://www.youtube.com/watch?v=387IjNAX6DI>.

At 8:07pm Seong-Hee Kim adjourned the meeting.

Attendees: To deter email harvesting, @ has been replaced with <of>.

Christos Alexopoulos christos<of>isye.gatech.edu
 Bernard Zeigler zeigler<of>gmail.com
 Guy Feldman gfeldman<of>purdue.edu
 Mauricio Cabrera Rios mauricio.cabrera1<of>upr.edu
 Sara Minaeian minaeian<of>email.arizona.edu
 Enlu Zhou enlu.zhou<of>isye.gatech.edu
 Kalyani Nagaraj kalyanin<of>purdue.edu
 Dashi Singham dsingham<of>nps.edu
 Enver Yucesan enver.yucesan<of>insead.edu
 Shane Henderson sgh9<of>cornell.edu
 Paul Sanchez pjs<of>alum.mit.edu
 Andrea Matta matta<of>sjtu.edu.cn
 Averill Law averill<of>simulation.ws
 Kitty Heinrich kittyannaheinrich<of>gmail.com
 Vitali Volovoi vitali<of>volovoi.com
 Lee Schruben lees<of>berkeley.edu
 J.O. Miller john.miller<of>afit.edu
 Jesus Jimenez jj30<of>txstate.edu
 Sigridur Sigurdardottir sigridursig<of>matis.is
 Oliver Rose oliver.rose<of>unibw.de
 Marvin Nakayama marvin<of>njit.edu
 Soonhui Lee shlee<of>unist.ac.kr
 Jing Dong jing.dong<of>northwestern.edu
 Xiaowei Zhang xiaoweiz<of>ust.hk
 Karen Hicklin kthickli<of>ncsu.edu
 Zdravko Botev botev<of>unsw.edu.au
 Bruno Tuffin bruno.tuffin<of>inria.fr
 Pierre L'Ecuyer lecuyer<of>iro.umontreal.ca
 Chuljin Park parkcj<of>hanyang.ac.kr
 Mi Lim Lee mllee<of>hongik.ac.kr
 Jean Wery jean.wery.1<of>ulaval.ca
 Kai G. Mertens kai.mertens<of>tuhh.de
 Chaitanya Kaligotla
 chaitanya.kaligotla<of>insead.edu
 Arthur Valadares avaladar<of>uci.edu
 Peter Frazier pf98<of>cornell.edu
 Seong-Hee Kim skim<of>isye.gatech.edu
 Russell Barton rbarton<of>psu.edu
 Raghu Pasupathy pasupath<of>purdue.edu
 Jeremy Staum j-staum<of>northwestern.edu
 John Shortle jshortle<of>gmu.edu
 Susan Hunter susanhunter<of>purdue.edu
 Susan Sanchez ssanchez<of>nps.edu
 Peter Haas phaas<of>us.ibm.com
 Barry L Nelson nelsonb<of>northwestern.edu
 Doug Morrice
 douglas.morrice<of>mcombs.utexas.edu
 Wei Xie xiew3<of>rpi.edu

Canan G. Corlu canan<of>bu.edu
Thomas J. Schriber schriber<of>umich.edu
Eunhye Song eunhyesong2016<of>u.northwestern.edu
Imry Rosenbaum
imryrosenbaum2016<of>u.northwestern.edu
Mingbin (Ben) Feng benfeng<of>u.northwestern.edu
Ben Brelje benjamin.brelje<of>gmail.com
Eunji Lim elim<of>kean.edu
Russell Cheng cheng<of>btinternet.com
Stewart Robinson r.robinson<of>lboro.ac.uk
Sanjay Jain jain<of>gwu.edu
Steve Chick stephen.chick<of>insead.edu
Young-Jun Son son<of>sie.arizona.edu
Jim Wilson jwilson<of>ncsu.edu
Dave Goldsman sman<of>gatech.edu
Sally Brailsford s.c.brailsford<of>soton.ac.uk
Bruce Ankenman ankenman<of>northwestern.edu
John Fowler john.fowler<of>asu.edu
Lin Uhrmacher lin<of>informatik.uni-rostock.de
Niniet Arvitrida N.I.Arvitrida<of>lboro.ac.uk
Durk-Jouke van der Zee d.j.van.der.zee<of>rug.nl

Soumyadip Ghosh ghoshs<of>us.ibm.com
Bob Sargent rsargent<of>syr.edu
Michael Kuhl mekeie<of>rit.edu
Loo Hay Lee iseleeih<of>nus.edu.sg
Zhou Chenhao zhou_chenhao<of>u.nus.edu
Meng Qun mengqun<of>u.nus.edu
Haobin Li lihb<of>ihpc.a-star.edu.sg
Yun Kim kimyb<of>skku.edu
Taesik Lee taesik.lee<of>kaist.edu
Theresa Roder tmroeder<of>sfsu.edu
Victor Chan chanw<of>rpi.edu
Huifen Chen huifen<of>cycu.edu
Andrew Collins ajcollin<of>odu.edu
Ilya Ryzhov iryzhov<of>rsmith.umd.edu
Jie Xu jxu13<of>gmu.edu
Bruce Schmeiser bruceshmeiser<of>gmail.com
Pres White kpwhite<of>virginia.edu
Hamzat Aliyu alilanre<of>yahoo.com
Cristina Ruiz Martin
christinaruizmartin<of>cmail.carleton.ca

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I-SIM ELECTIONS

Ballot for Election of I-Sim Officers

Bahar Biller, Past President

To vote in the election for I-Sim Officers and Council Members, return the ballot below by e-mail or mail by Friday, June 3rd, 2016 to:

Bahar Biller
GE Global Research Center
One Research Circle, K1-4A70
Niskayuna, NY 12309 USA
E-Mail: bahar.biller@ge.com

If you use email, please include the words I-Sim Ballot in the subject line.

The Vice-President/President-Elect will be elected to serve two years as Vice-President followed by two years as President. The Secretary and Treasurer will be elected to serve two years. Two members of I-Sim Council will serve for a period of two years. Per the I-Sim Bylaws at least one council member elected must be from outside the United States. The candidates are presented in alphabetical order.

VICE-PRESIDENT/PRESIDENT-ELECT (vote for one)

SECRETARY (vote for one)

_____ JEFF HONG

_____ DEMET BATUR

_____ RAGHU PASUPATHY

_____ ENLU ZHOU

TREASURER (vote for one)

_____ DASHI SINGHAM

_____ WEI XIE

COUNCIL (vote for up to two)

_____ SALLY BRAILSFORD

_____ OLIVER ROSE

_____ MANUEL ROSSETTI

_____ YOUNG-JUN SON

(This part will be used only to certify the ballot — your vote will be kept confidential. Your e-mail address will serve as your signature if you vote electronically.)

Your name (print): _____

Your signature: _____

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Brief Biographical Sketches for Candidates

JEFF HONG received his Ph.D. in Industrial Engineering and Management Science from Northwestern University in 2004 and his B.S. in Automotive Engineering and B.S. in Industrial Engineering from Tsinghua University in 1999. He is currently a Chair Professor of Management Sciences in College of Business at City University of Hong Kong (CityU). Before joining CityU, he was a Professor in Department of Industrial Engineering and Logistics Management at the Hong Kong University of Science and Technology, where he was also Director of Financial Engineering Lab, Associate Director of Logistics and Supply Chain Management Institute, and Director of M.Sc. program in Engineering Enterprise Management. Jeff's research interests include stochastic optimization and simulation, financial engineering, and business analytics. He has published extensively in leading academic journals, including *Operations Research* and *Management Science*, and has won Outstanding Research Award from the Operational Research Society of China in 2014, Outstanding Simulation Publication Award from INFORMS Simulation Society in 2012, and Operations Best Paper Award from *IIE Transactions* in 2009. He is currently an Associate Editor for *Operations Research*, *Naval Research Logistics*, and *ACM Transactions on Modeling and Computer Simulation*. Jeff has been active in the INFORMS Simulation Society. He was the Newsletter Editor in 2006-2008, a member of the Award Committee in 2008-2010, and an elected council member since 2014, and he is currently chairing the committee for Outstanding Simulation Publication Award.

RAGHU PASUPATHY is an Associate Professor of Statistics at Purdue University. His research interests lie in the methodological aspects of Monte Carlo simulation and optimization, most recently as they arise within “big data” and machine learning contexts. Raghu teaches courses on Stochastic Processes, Monte Carlo (particularly for Computational Finance), and Time Series. Raghu Pasupathy has been associated in various capacities with what is now called the INFORMS Simulation (I-SIM) Society. For instance, he has served as the Newsletter Editor, as a member of the I-SIM Council, and as the treasurer of the I-SIM Society. Raghu Pasupathy is a regular participant at the Winter Simulation Conference (WSC), serving as Proceedings Editor of the 2012 and 2013 editions, track coordinator of the Simulation Optimization track for the 2011 WSC, and again as the track coordinator of the Analysis & Methodology track for the 2016 WSC. Raghu has served or currently serves on the editorial boards of *Operations Research*, *INFORMS Journal on Computing*, *ACM Transactions on Modeling and Computer Simulation*, and *IIE Transactions*. Additional information, including downloadable papers and software, can be obtained through Raghu's website, <http://web.ics.purdue.edu/~pasupath/>.

DEMET BATUR is an Assistant Professor in the Department of Management at the University of Nebraska-Lincoln. She received her Ph.D. in Industrial and Systems Engineering from Georgia Institute of Technology. Her research interests include ranking and selection procedures for stochastic simulations and applications of simulation methods in decision analysis. She is a member of INFORMS Simulation Society and POMS. She has served as session organizer for both Winter Simulation Conference and INFORMS Annual Meeting for several times. She was a member of the Committee of Underrepresented Minorities and Women (CUMW) of the Simulation Society for three years. For more information please visit her website at <http://cba.unl.edu/people/dbatur>.

ENLU ZHOU received the B.S. degree with highest honors in electrical engineering from Zhejiang University, China, in 2004, and the Ph.D. degree in electrical engineering from the University of Maryland, College Park, in 2009. From 2009-2013 she was an assistant professor in the Industrial & Enterprise Systems Engineering Department at the University of Illinois Urbana-Champaign. Since 2013 she has been an assistant professor in the H. Milton School of Industrial & Systems Engineering at Georgia Institute of Technology. Her research interests include stochastic control, simulation optimization, and Monte Carlo statistical methods, with applications in financial engineering and revenue management. She is a recipient of the “Best Theoretical Paper” award at the 2009 Winter Simulation Conference, the AFOSR Young Investigator award in 2012, and the NSF CAREER award in 2015.

DASHI SINGHAM is a Research Assistant Professor of Operations Research at the Naval Postgraduate School, where she teaches simulation and statistics. Her specific research areas include simulation analysis methods with applications to energy systems. Dashi served on the WSC Diversity Committee (Committee for Underrepresented Minorities and Women) for three years, and is committed to encouraging new members to stay involved in I-Sim. She is an Associate Editor at *IIE Transactions* and referees for many journals. Dashi obtained her Ph.D. in Industrial Engineering & Operations Research at the University of California, Berkeley in 2010, an M.A. in Statistics from Berkeley in 2009, and a B.S.E. from Princeton University in Operations Research & Financial Engineering in 2004.

WEI XIE is an assistant professor in Department of Industrial and Systems Engineering at Rensselaer Polytechnic Institute. Dr. Xie received her M.S. and Ph.D. in Industrial Engineering and Management Sciences at Northwestern University. She worked at Chengdu Construction Machinery Co. and interned at GM research center and San Diego Supercomputer Center. Her research interests focus on computer simulation of stochastic systems, risk management, and data analytics with applications towards supply chains and production systems. Dr. Xie recently earned the 2015 Outstanding Simulation Publication Award from the INFORMS Simulation Society. Her email address is xiew3@rpi.edu and her web page is <http://faculty.rpi.edu/wei-xie>.

SALLY BRAILSFORD is Professor of Management Science at the University of Southampton. Sally has worked for over 25 years in the area of health OR. She is chair of the EURO Working Group on OR Applied to Health Services (ORAHs) and co-chair of the UK OR Society’s Special Interest Group on Behavioural OR. She has twice won the UK OR Society’s Goodeve Medal, in 2004 for modelling emergency healthcare services in Nottingham and in 2006 for modelling chlamydia infection, and is one of the Editors-in-Chief of the UK OR Society’s new journal *Health Systems*.

OLIVER ROSE holds the Chair for Modeling and Simulation at the Department of Computer Science of the Universität der Bundeswehr, Germany. He received a M.S. degree in applied mathematics (1992) and a Ph.D. degree in computer science (1997) from Würzburg University, Germany. His research focuses on the operational modeling, analysis and material flow control of complex manufacturing facilities, in particular, semiconductor factories and assembly systems. He is a member of INFORMS Simulation Society, ASIM (German Simulation Society), and GI (German Computer Science Society). In 2012, he served as General Chair of the WSC. Currently, he is member of the board of the ASIM and the ASIM representative at the Board of Directors of the WSC.

MANUEL ROSSETTI is a Professor of Industrial Engineering and the Director for the NSF I/UCRC Center for Excellence in Logistics and Distribution (CELDi) at UA. Dr. Rossetti has published over 100 journal and conference articles in the areas of simulation, logistics/inventory, and healthcare and has been the PI or Co-PI on funded research projects totaling over 4.9 million dollars. He was selected as a Lilly Teaching Fellow in 1997/98 and was voted Best IE Teacher by IE students in 2007 and 2009. He won the IE Department Outstanding Teacher Award in 2001-02, 2007-08, and 2010-11. He received the College of Engineering Imhoff Teaching Award in 2012 and was elected an IIE Fellow. In 2013, the UA Alumni Association awarded Dr. Rossetti the Charles and Nadine Baum Faculty Teaching Award, the highest award for teaching at the university. Dr. Rossetti is a member of IIE, INFORMS, and ASEE. In 2015, Dr. Rossetti served as program chair for the Winter Simulation Conference. He is also the author of the book, *Simulation Modeling and Arena*, published by John Wiley & Sons.

YOUNG-JUN SON is a Professor and Head of Systems and Industrial Engineering and da Vinci Fellow at University of Arizona. His research focuses on modeling and control of complex manufacturing and service enterprises, and distributed federation of multi-paradigm simulations. He has authored/co-authored 72 journal papers and over 100 conference papers in these areas. He is a Fellow of IIE, and has received the SME 2004 Outstanding Young Manufacturing Engineer Award, the IIE 2005 Outstanding Young Industrial Engineer Award, the IERC Conference Best Paper Awards (2005, 2008, 2009), and Best Paper of the Year Award in 2007 from IJIE. He is a Department Editor for IIE Transactions, and on the editorial board for seven additional journals. He will be the General Chair for WSC 2019 and INFORMS 2018. Currently, he is chairing the I-Sim recruiting and retention committee. He has served as I-Sim Secretary (2012-2014), a co-Program Chair for IERC 2007, INFORMS Regional Conference 2009, and PADS 2015, Track Coordinator for WSC (9 times), Track Chair for IERC (5 times), WSC Business Chair (2012), and WSC Publicity Chair (2004 and 2014).

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UPCOMING EVENTS

Event Calendar

Jie Xu

2016 Annual IEEE Systems Conference, Orlando, FL,
April 18 – 21, 2016, <http://2016.ieeesyscon.org/>

IIE Annual Conference and Exposition 2016, Anaheim, CA,
May 21 – 24, 2016, <http://www.iienet2.org/annual2/>

INFORMS Annual Meeting 2016, Nashville, TN,
November 13 – 16, 2016, <http://meetings2.informs.org/wordpress/nashville2016/>

2016 Winter Simulation Conference, Arlington, VA
December 11 – 14, 2016, <http://www.wintersim.org>

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5521 Research Park Drive
Suite 200
Catonsville, MD 21228