



## INSTITUTE FOR OPERATIONS RESEARCH AND THE MANAGEMENT SCIENCES

# I-Sim News

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## President's Message

*Peter J. Haas*

In this Spring message, I am happy to report that I-Sim remains a vibrant and active society, with over 600 members, including over 170 international members. This past November, I-Sim sponsored a rich and varied simulation track at the 2011 INFORMS Annual Meeting in Charlotte, NC, with 57 presentations in 16 sponsored sessions. I-Sim also co-sponsored the highly successful 2011 Winter Simulation Conference, which was held in Phoenix this past December. As always, I was impressed not only with the high quality of the theoretical and applied papers presented during the regular sessions, but with the outstanding work presented at the PhD colloquium; thanks to Prof. Richard Fujimoto for an inspiring talk on innovation, and building and sustaining a successful career in research.

Business meetings were held during both the INFORMS Annual Meeting in November and the Winter Simulation Conference in December. At the latter meeting, I-Sim honored the following individuals for their major contributions to our community:

- Peter A. W. Lewis -- Lifetime Professional Achievement Award
- Pierre L'Ecuyer -- Distinguished Service Award
- Michael B. Giles -- Outstanding Simulation Publication Award

Tragically, Prof. Lewis passed away during the deliberation process, so the LPAA award was given posthumously; several moving testimonials were presented during the award ceremony and his children graciously donated the award money to the WSC Foundation. Other honorees included CUMW Award recipients Toni Sorrell (Virginia Commonwealth U.), Zhang Si (National U. of Singapore), and Juan Li (Columbia U.), as well as Best Student Paper Award winners Rolf Waeber (Cornell U.) and Juan S. Corredor (U. Miami). The I-Sim website contains photos and full award citations. Other notable items from the December meeting included an announcement that Prof. Jim Wilson (NC State U.) has received an NSF grant to create a retrospective oral history of computer simulation.

With respect to future events, I-Sim will be sponsoring sessions at the INFORMS Healthcare 2012 International Meeting in Beijing (June 24-27). Plans are also being made for the 2012 INFORMS Fall Meeting and the 2012 Winter Simulation Conference. Also, it has been decided that the 2013 I-Sim Research Workshop will be held at Georgia Tech in Atlanta, GA, around the theme of "Simulation for Modeling, Analysis, and Optimization of Large Scale Systems". Thanks to Christos Alexopoulos, Sigrun Andradottir, David

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Goldsman, Seong-Hee Kim, and their colleagues and students for volunteering to host the fourth edition of this highly successful workshop series.

I encourage you to vote in the election of new I-Sim officers. This newsletter contains voting instructions, along with a description of the candidates for each of the I-Sim positions: Vice-President/President Elect, Treasurer, Secretary, and two I-Sim Council Members. I also hope that you will help the awards committees by nominating candidates for the various 2012 I-Sim awards. The process is quite easy, and will help ensure that deserving members of our community are not overlooked.

Finally, I thank all of you for giving me the opportunity to serve as I-Sim President. I especially want to thank the officers and committee members whose hard work, dedication, and support have helped me tremendously over the past two years. These include Bahar Biller (President-Elect), Seong-Hee Kim (Secretary), John Fowler (Treasurer), Mike Kuhl (Past President), Theresa Roeder (Communications Editor), Enlu Zhou (Associate Communications Editor), Pres White (INFORMS Subdivision Council Representative), Christos Alexopoulos and Doug Morrice (WSC Representatives), current and former Council members Jeff Hong, Loo Hay Lee, Raghu Pasupathy, Oliver Rose, Paul Sanchez, and John Shortle, and the many members of I-Sim committees. 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 printouts of the newsletter to friends and colleagues, or let them know about the *INFORMS Simulation Society* Web page. You'll get more than just a newsletter. Its URL is

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

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



*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 *Institute for Operations Research and the Management Sciences*. 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*, 7240 Parkway Drive, Suite 310, Hanover, MD 21076.

## Editor's Corner

*Theresa Roeder*

It is spring again here in the Northern Hemisphere, so it is our pleasure to bring you the Spring 2012 edition of the I-Sim newsletter, Volume 36! In addition to reports by the Treasurer and Secretary, you can find calls for

award nominations and citations for our 2011 winners, as well as upcoming events. Meeting minutes from the business meetings at INFORMS and the Winter Simulation Conference and the I-Sim "voting package" are at the end of the newsletter. All information is also available at our web site, <http://www.informs.org/Community/Simulation-Society>.

## INFORMS Simulation Society Treasurer's Report

*John Fowler*

Unaudited Retained Earnings Statement For the Twelve Months Ending Dec 31, 2011	
R/E Beginning Balance	\$81,951.69
Meeting Surplus (Deficit)	
Net Revenue	\$25,863.75
Net Expense	(\$12,594.28)
R/E Ending Balance	\$95,221.16
Deferred Future Dues Revenue	\$2,815.00
Total Deferred Future Dues Revenue	\$2,815.00

Profit and Loss Summaries For the Twelve Months Ending Dec 31, 2011	
Dues Revenue	\$4,980.00
Contributions	\$25.00
Sponsorships	\$20,858.75
<b>Total Revenue</b>	<b>\$25,863.75</b>
Subtotal National Meeting Expense	\$681.33
Subtotal Local Meeting Expense	\$3,348.12
Subtotal Marketing & Promo Expense	\$1,800.00
Subtotal Membership Expense	\$6,764.83
<b>Total Expense</b>	<b>\$12,594.28</b>
<b>Net Gain/Loss</b>	<b>\$13,269.4</b>
Deferred Dues Revenue	\$2,815.00
<b>Total Deferred Revenue</b>	<b>\$2,815.00</b>

## Secretary's Corner

*Seong-Hee Kim*

As of 4/4/12, the Society has 476 members, out of which 131 are international members with highest non-US members from Canada, followed by UK and Netherlands. There are 89 new members who joined I-SIM on or after 1/1/2012. Welcome!

As member, you get discount on registration for conferences sponsored by the I-SIM Society, which includes Winter Simulation Conference. If you are not a current member and want to join I-SIM, please visit <http://www.informs.org/Community/Simulation-Society/Join-Us>.

## Call for Nominations: Lifetime Professional Achievement Award

*Reuven Rubinstein*

The Lifetime Professional Achievement Award (LPAA) of the Institute for Operations Research and the Management Sciences (INFORMS) Simulation Society is the highest honor given by the Society. The purpose of this award is to recognize major contributions to the field of simulation that are sustained over a professional career, with the critical consideration being the total impact of those contributions on computer simulation. Past recipients are George Fishman, Jack Kleijnen, Averill Law, Richard Nance, Alan Pritsker, Julian

Reitman, Reuven Rubinstein, Robert Sargent, and Thomas Schriber. An individual's contributions may fall in one or more of the areas listed below:

- Research: Dissemination of Knowledge
- Service to the Simulation Profession
- Practice: Development of Hardware or Software
- Advancement of the Status or Visibility of the Field

A nominee is not expected to demonstrate contributions in each area. A full description of the Award Rules can be found at

<http://www.informs.org/Community/Simulation-Society/Awards/Lifetime-Professional-Achievement-Award/LPAA-Rules>.

The annual award consists of a plaque, a \$1000 cash prize, and reasonable travel expenses incurred by the recipient when attending the presentation ceremony. If given, the award will be presented in December during the opening session of the Winter Simulation Conference. An individual selected for this award should normally be in or near their retirement; the award may also be given posthumously. Nominations may be submitted in the form of pdf files 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 resume
- A clear-cut, comprehensive description of the nominee's major contributions to the profession, with complete supporting documentation
- At least three letters of endorsement providing evidence of the significance and magnitude of the nominee's professional achievements

Nominations for this award must be received by the Chair of the LPAA Selection Committee by no later than September 1, 2012. Please send complete nominations, including all supporting letters and documentation (if possible in the form of pdf files attached to a single e-mail), to the Committee Chair.

The LPAA Selection Committee consists of:

Reuven Rubinstein ([ierrr01@ie.technion.ac.il](mailto:ierrr01@ie.technion.ac.il)), Chair  
Averill M. Law  
Barry Nelson

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## Call for Nominations: Distinguished Service Award

*Peter Welch*

To recognize individuals who have provided longstanding, exceptional service to the simulation community, the Institute for Operations Research and the Management Sciences Simulation Society (INFORMS-Sim, [www.informs-sim.org](http://www.informs-sim.org)) has established its Distinguished Service Award, which may be given to at most one person annually. Sustained service to the simulation community should extend over a period of 15 to 20 years or longer and be acquitted with distinction. The concept of service for this award does not include teaching or research contributions. Areas of volunteer service include, but are not limited to, the following:

1. Elected offices in simulation societies;
2. Editorial responsibilities for simulation such as area editor and editor-in-chief;
3. Conference responsibilities involving simulation such as program chair, proceedings editor, general chair, and membership in the organizing or program committee;
4. Appointed positions for simulation-related activities such as serving on committees and being a newsletter editor; and
5. Undertakings and actions that promote simulation in the "larger community."

Nominations for the Distinguished Service Award can be made by anyone and are made by sending a letter of nomination to the chair of the award selection committee by September 1, 2012 (hardcopy and/or email). 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 nominee's current vita must be included with the nomination letter. The individual(s) making the nomination have the primary responsibility for justifying why the nominee should receive this award. If given, the award will be presented in December at the 2012 Winter Simulation Conference in Berlin Germany: [www.wintersim.org](http://www.wintersim.org). A list of past winners of the award can be found at

<http://www.informs.org/Community/Simulation-Society/Awards/Distinguished-Service-Award/Winners>.

Nominations should be sent to the Chair of the Distinguished Service Award Committee:

Peter D. Welch  
Walpole Software Corporation  
85 Croton Ave.  
Mount Kisco, NY 10549  
Phone: (914) 241-2941  
Email: [pdwelch@att.net](mailto:pdwelch@att.net)



## Call for Nominations: Outstanding Simulation Publication Award

*Pierre L'Ecuyer*

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 2012 should be sent by September 1, 2012, to the Awards Committee Chair:

Pierre L'Ecuyer  
 DIRO, Université de Montréal  
[lecuyer@iro.umontreal.ca](mailto:lecuyer@iro.umontreal.ca)  
<http://www.iro.umontreal.ca/~lecuyer/>

The other committee members are Thanos Avramidis and Marvin Nakayama.

Anyone is eligible to win the award. Journal articles, proceedings articles, books, book chapters, and monographs copyrighted in 2009, 2010 and 2011 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, Berlin, Germany, December 9-12, 2012. The Award carries with it a cash prize of \$500. A list of previous winners is available at the web site:

<http://www.informs.org/Community/Simulation-Society/Awards/Best-Simulation-Publication-Award/Winners>.

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## Ph.D. Colloquium and Poster Session

*Sponsored by the ACM-SIGSIM and I-Sim Societies*

*Andreas Tolk*

Sunday, December 9, 2012

Submission Starts: Friday July 3, 2012

Submission Deadline: Monday September 10, 2012

### Best Ph.D. Student Paper Awards

The Ph.D. Colloquium & Poster Session at WSC'12 is an exciting opportunity for Ph.D. students to present their work to the public.

Before giving her keynote to kick off the Ph.D. Colloquium, Professor Adelinde M. Uhrmacher from the University of Rostock will join us for a discussion over lunch. Students close to graduation (planning to graduate by Dec. 2013) will be given an opportunity to showcase their work during a short presentation session in the Colloquium. All Colloquium students will then participate in the Poster Session. In addition, you can submit a student paper in the official tracks to be eligible for a Best Ph.D. Student Paper Award.

Both ACM-SIGSIM and INFORMS-Sim provide a

complimentary one-year membership for all students participating in the colloquium.

For students close to graduation participating in both the presentation session and the poster session, ACM-SIGSIM and INFORMS-Sim will reimburse their conference registration fee and their lunch. Moreover, ACM-SIGSIM and INFORMS-Sim will each award a Best Ph.D. Student Paper prize among those final year students making a presentation at both the Ph.D. Colloquium and the conference.

In summary, there are three options:

1. Submit your work as a poster, get accepted, and you will have a good reason to come to the WSC 2012.
2. Submit a presentation in addition to your poster, get accepted, and you will be reimbursed for the conference and participate in the PhD lunch.
3. Submit a full paper in addition to the poster and presentation, and you will be eligible to receive an award.

Presenting your PhD efforts to your peers and

supporting society members will give you valuable feedback, support your research with additional ideas and parallel ongoing work, and introduces you to a network that can be very helpful with your career once you graduate.

## SUBMISSION INSTRUCTIONS

### Posters:

All colloquium submissions should include a brief (150-word maximum) description of the research to be presented in the Poster Session along with the names of your co-authors. A full-paper submission is not needed for participating at the colloquium. Submit your application online at <http://www.wintersim.org/phd.htm> (when you submit, select "Ph.D. Colloquium" as the track).

### Poster preparation guidelines:

You will be provided a 4 feet high and 8 feet wide bulletin board. We recommend that you use approximately 4 feet X 6 feet of space for your display. There is no requirement that you fill the board. There is also no requirement that you print a "real" poster - printed PowerPoint slides are perfectly acceptable. Your poster should cover the main points of your work and be as self-explanatory as possible. However, you should participate in the evening event when the posters are presented, as peers and society members will have additional questions. Even when you gave a presentation, the poster session is always a great

opportunity to talk about details, discuss relevant related research, and bond with fellow PhD students.

### Presentations:

Final year students who wish to take part in the presentation session should have their thesis advisor send an email confirmation of the expected graduation date to the Colloquium Chair (before September 10, 2012).

If you submit a student paper for the conference you can use your presentation for the PhD colloquium as well as for the track presentation. You may need to edit the slides a little bit, as we may be more time constraint, but you do not have to present something special in the PhD colloquium that cannot use in the regular sessions.

### Student Papers:

Student papers are part of the regular conference and fall under the submission and review guidelines as documented on the WSC website <http://www.wintersim.org>. Be aware of their deadlines, they differ from the PhD Colloquium. However, if you are participating in the PhD colloquium as well, please send a short note with the details of the accepted paper to the Colloquium share (before September 10, 2012).

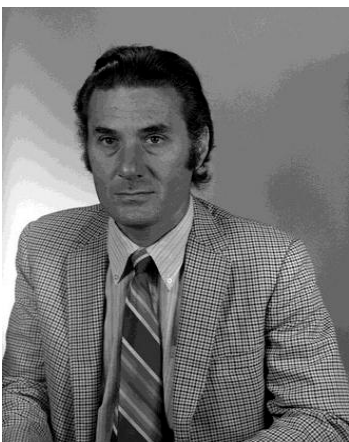
### More information

Contact the WSC 2012 Colloquium Chair: Dr. Andreas Tolk, Old Dominion University, Norfolk, VA, USA at [atolk@odu.edu](mailto:atolk@odu.edu).

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## Peter A.W. Lewis Receives the 2011 Lifetime Professional Achievement Award

*Averill M. Law*



The Lifetime Professional Achievement Award is the highest honor given by the INFORMS Simulation Society. The award recognizes 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 these contributions on the field. The 2011 LPAA Selection Committee consisted of Averill M. Law (chair), Reuven Rubinstein, and Enver Yücesan.

This year's winner is Dr. Peter A.W. Lewis (1932-2011), who was Distinguished Professor of Statistics and Operations Research at the Naval Postgraduate School. He was a leader in the fields of computer simulation, applied statistics and probability, and operations research. Peter's work on simulation theory and methodology encompassed the areas of input modeling (time-series models and non-stationary point processes), random-number generation, variance-reduction techniques, and output-data analysis (regenerative method and quantile estimation).

Peter's service to the international simulation community included persuading the American Statistical

Association (ASA) to become a sponsor of WSC in the mid-1980s, and then serving on the WSC Board of Directors as ASA's representative from 1986 to 1989. A common theme running through the comments about Peter Lewis by many of his colleagues and former students is his extraordinary influence on their

professional careers and his steadfast encouragement and support of their work.

Peter was elected Fellow of the International Statistical Institute, the Institute of Mathematical Statistics, and the ASA.

## Pierre L'Ecuyer Receives 2011 Distinguished Service Award

*K. Preston White*



The INFORMS Simulation Society is pleased to recognize Pierre L'Ecuyer with its Distinguished Service Award. The Distinguished Service Award, given at most once a year, was established "to recognize individuals who have provided

long-standing, exceptional service to the simulation community." The award was presented during the opening ceremonies of the 2011 Winter Simulation Conference, held in Phoenix, AZ. The Selection Committee consisted of past awardees Preston White, Russell Barton, and Peter Welch.

Among his many accomplishments, Pierre has organized and/or chaired seven international workshops, including the highly successful 2011 I-SIM Workshop held in Montreal. He has served on program committees for thirty-five international conferences and as a referee for over 100 archival journals. He also has served as an associate, area, or guest editor for ten journals and currently is Editor-in-Chief of the ACM Transactions on Modeling and Computer Simulation (TOMACS). He has authored over 200 scholarly publications, including both the 2009 I-SIM Outstanding Research Publication and one of the "ten Landmark Papers that impacted the theory, education, and practice of simulation" recognized at the WSC2007. Pierre is an INFORMS Fellow and a Fellow of the IRISA Michel Métivier Foundation.

## Michael Giles wins 2011 Best Simulation Publication Award

*Thanos Avramidis*



When we simulate the sample path of a stochastic process defined by a stochastic differential equation, except in simple special cases, we must discretize the time, and replace any estimator defined as a function of the sample path by a

function of the process values at the discretization points. A too crude discretization gives too much bias for the estimator, whereas a too fine discretization makes the simulation too expensive to run.

In his paper "Multilevel Monte Carlo Path Simulation," published in *Operations Research* in 2008, Michael

Giles developed a method based on clever multigrid ideas in numerical analysis, that provides an estimator with the same low bias and almost the same variance as an estimator based on a very fine grid, with a computing effort comparable to that required with a crude discretization.

The idea is to select a decreasing sequence of discretization time steps, and write the estimator for the finest discretization as equal to the estimator for the coarsest one plus a sum of corrections, where each correction is the difference between the estimators at two successive time steps. We first run the simulation at the coarse discretization for a large sample size, then we estimate each correction term independently by simulating the difference with carefully synchronized common random numbers, using a sample size that decreases when the time step decreases. Much smaller sample sizes can be used for the corrections at the finer

levels because these corrections have much smaller variances. The efficiency improvement is characterized in the paper by a general theorem showing that the computing effort often increases, as a function of one over the mean square error, at a slower rate than with the standard Monte Carlo method. The achieved rate depends on how the variance of the correction and the bias behave as a function of the time step, for the application at hand. A similar technique was proposed earlier by Stefan Heinrich for the different problem of estimating a function of a continuous parameter everywhere in a finite interval, by Monte Carlo, when only noisy observations of the function are available.

The proposed method applies to various discretization schemes, including Euler and Milstein methods. In the prize-winning paper, its efficiency was illustrated with option pricing problems in finance. Subsequent papers have examined the combination with quasi-Monte Carlo, estimation of sensitivities, jump-diffusion processes, stochastic partial differential equations, and applications to other areas than finance.

This work is a significant breakthrough in Monte Carlo methods for stochastic differential equations, and is already having a large impact on simulation research in finance.

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## Zhang Si, Toni Sorrell, and Juan Li win 2011 CUMW Awards

*Demet Batur*

The 2011 CUMW award winners are Toni Sorrell of the Virginia Commonwealth University, Zhang Si of the National University of Singapore, and Juan Li of Columbia University.

In order 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. In 2010, each awardee received an honorarium of \$500.00. The CUMW committee is looking forward for more high-quality applications for the coming 2012 WSC meeting.

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## Hu, Wang, Findlay, and Grant win 2011 WSC Best Paper Awards

*Ann Dunkin*

The 2011 WSC Best Theoretical Paper Award went to:

"Discrete Optimization via Approximate Annealing Adaptive Search with Stochastic Averaging", Jiaqiao Hu and Chen Wang, State University of New York, Stony Brook.

The 2011 WSC Best Applied Paper Award went to:

"An Application of Discrete-Event Simulation to an Outpatient Healthcare Clinic with Batch Arrivals" by Michael Findlay and Hank Grant, The University of Oklahoma.

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## Rolf Waeber and Juan Corredor win 2011 WSC Best Student Paper Awards

*Ali Tafazzoli*

The 2011 PhD Colloquium Best Paper Awards went to:

INFORMS SIM Best MS/OR focused paper: "A Bayesian Approach to Stochastic Root Finding" by Rolf Waeber, Cornell University.

ACM SIGSIM Best CS focused paper: "Utility Resource Planning using Modular Simulation and Optimization" by Juan S. Corredor, University of Miami.



**INFORMS 2012 Annual Meeting  
Phoenix, Arizona, October 14-17**

*Bahar Biller (source:  
<http://meetings2.informs.org/phoenix2012>)*



The Simulation Society will be sponsoring sessions at the INFORMS Annual Meeting, which will be held in Phoenix, Arizona, October 14-17, 2012, at the Phoenix

Convention Center. The abstract submission deadline is May 15. The theme of the meeting, INFORMATICS RISING, blends the growing role of OR/MS techniques for understanding natural and artificial systems and coupling with computing and communication technologies to drive decision making for enriching our personal lives and enhancing our professional activity. There will be a rich variety of talks, panels, and tutorials that address these and many other challenges our community tackle. As always, I-Sim would like to have a strong presence at the conference. If you are interested in chairing a sponsored session, please contact Bahar Biller ([billerb@andrew.cmu.edu](mailto:billerb@andrew.cmu.edu)).

**2012 Winter Simulation Conference  
Berlin, Germany, December 9-12**

*Bahar Biller (source: <http://www.wintersim.org>)*



WSC goes Europe! The conference will be held at the Hotel Intercontinental in Berlin, Germany, on December 9-12, 2012. WSC'12 features a comprehensive program ranging from introductory tutorials and a hands-on introductory workshop to state-of-the-art research and practice. The conference includes student presentations, exhibits, training sessions by software vendors, business meetings for professional societies and software user groups, and a general reception. The abstract submission deadline is April 2, 2012, and the paper submission deadline is April 9. For additional information about WSC'12, visit <http://www.wintersim.org>.

**INFORMS 2012 International Meeting  
June 24-27, 2012, Beijing, China**

*Bahar Biller (source:  
<http://meetings2.informs.org/beijing2012>)*

The Simulation Society plans to sponsor sessions at the INFORMS International 2012 Meeting in Beijing, China, June 24-27, 2012. If you would like to organize a

session for the conference or give a presentation in an I-SIM sponsored session, please contact Bahar Biller ([billerb@andrew.cmu.edu](mailto:billerb@andrew.cmu.edu)) as soon as possible. The deadline for submitting abstracts is February 13, 2012. For details about the conference, please visit the conference website at <http://meetings2.informs.org/beijing2012>.



**RESIM 2012 International Workshop on Rare Event Simulation**

**June 25-27, 2012, Trondheim, Norway**  
*Bahar Biller (source: <http://resim2012.item.ntnu.no>)*

RESIM 2012 will be the 9th workshop in a series of successful events held on the topic. It covers all aspects of rare event simulation ranging from purely theoretical developments to practical applications. The objective is to provide a forum for researchers and practitioners working in different locations and on different applications to present recent results, exchange ideas,

and discuss open problems and new directions. You can indicate your interest in presenting a paper in this workshop by submitting a title and a one-page abstract

by April 20. You can find detailed author instructions at <http://resim2012.item.ntnu.no/instructions.php>.



## Report on the *Informs Journal on Computing*

*Marvin Nakayama, Journal on Computing Simulation Area Editor*

In the one-year period ending March 13, 2012, the Simulation Area of the INFORMS Journal on Computing (IJOC) has received 12 new submissions and 15 revised manuscripts. During this one-year period, 8 papers have been accepted and 9 rejected; there are 6 submissions currently awaiting various stages of editorial feedback. The average turnaround time over all rounds of submissions completed during this period is 85 days.

The Associate Editors in the IJOC Simulation Area are Russell Barton, James M. Calvin, Raghu Pasupathy, and Bruno Tuffin. I thank all of the AEs for doing a great job!

The IJOC Simulation Area covers all computational aspects of simulation. We seek 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, optimization, variance-reduction methods for simulation experiments, and other aspects of simulation modeling, experimentation, and analysis.

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>.

## Report on the Simulation Area for *Operations Research*

*Stephen E. Chick, Operations Research Simulation Area Editor*

Activity in the Simulation Area of Operations Research (Oct 3, 2011 to March 23, 2012)

For the period specified, there were 11 new submissions and 2 resubmissions. There were 5 rejections, 3 revise-and-resubmit decisions and 0 acceptances. Of the editorial decisions made in this period, 2 were late (between 4 and 6 months from date of submission) and none were very late.

The editorial team has seen some change as is normal with the transition to a new Area Editor. The current team of Associate Editors are Russell Barton, Peter Frazier, Peter Haas, Jeff Hong, Ragu Pasupathy. I would like to extend a great thanks to Shane Henderson, outgoing Area Editor, who has done an outstanding service to the simulation community for the past 6 years with his team of associate editors, Peter

Haas, Tito Homem-de-Mello, Jeff Hong and Seong-Hee Kim.

The editorial mission continues to be the same, and we encourage you to consider Operations Research for your outstanding simulation work. 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>).

## Report on *ACM Transactions on Modeling and Computer Simulation* (TOMACS)

*Pierre L'Ecuyer, Editor-in-Chief, ACM TOMACS, March 23, 2012*

Statistics on the editorial activities of the ACM Transactions on Modeling and Computer Simulation (TOMACS) for the period of 12 months ending:

(a) 18 October 2010 (10-10), (b) 1 March 2011 (11-03), (c) 25 October 2011 (11-10), and (d) 22 March 2012 (12-03):

	10-10	11-03	11-10	12-03
Papers submitted	86	91	120	163
Immediate desk rejects by Editor-in-Chief	38	47	53	60
Final decisions made	94	93	95	111
Accepted	22	16	12	11
Percentage Accepted	23%	17%	13%	10%
Pending Manuscripts (with us)	17	10	26	38
Manuscripts in revision (with authors)	6	13	14	
Avg. days from submission to first decision	33	32	31	43
Avg. days to assign referees – Original	6	5	7	
Avg. days to assign referees – Revision	11	15	12	
Avg. referee turnaround time- Original	42	41	45	
Avg. referee turnaround time – Revision	27	32	34	
Avg. time from submission to final decision	36	21	24	27

As always, these average delays only tell part of the story. Typically, the average is strongly influenced by a few high values and the median is much smaller than the average.

Counts of papers submitted to special issues with deadlines in late 2011:

1. Special issue on Simulation in Complex Service Systems: 20
2. Special issue on Monte Carlo Methods in Statistics: 17
3. Special issue on Advanced Modeling and Simulation on High-Performance Distributed Systems: 17

The ACM Transactions on Modeling and Computer Simulation (TOMACS) provides a single archival source for the publication of high-quality research and developmental results in computer simulation. The subjects of emphasis are discrete event simulation, combined discrete and continuous simulation, as well as Monte Carlo methods. The use of simulation techniques is pervasive, extending to virtually all the sciences. TOMACS serves to enhance the understanding, improve the practice, and increase the utilization of computer simulation. Submissions should contribute to the realization of these objectives, and papers treating applications should stress their contributions vis-a-vis these objectives.

For more information, visit <http://www.linklings.net/tomacs/>.

## Report on the *IIE Transactions*

*Enver Yücesan and Chun-Hung Chen, Simulation Department Editors*

*Activity in the Simulation Area of IJET (July 1, 2011 to March 31, 2012)*

The Associate Editors in the IJET Simulation Area are Wai Kin Victor Chan, Alan Johnson, Loo Hay Lee, Huseyin Topaloglu, and Roberto Szechtman. We thank all of the AEs for doing a great job.

For the period specified, there were 14 new submissions. There were 6 rejections, 6 revise-and-resubmit decisions, and 2 acceptances. The six manuscripts are currently under various stages of review.

In addition, there was a call for papers for the special issue on “simulation optimization and its application”. The submission deadline has passed and the submission is very encouraging. 21 submissions have been received. The review is going well. The guest editors for this special issue include Loo Hay Lee (lead), Ek Peng Chew, Peter I. Frazier, Qing-Shan Jia, and Chun-Hung Chen.

The goals of the IJET Simulation Department are (i) to seek out and disseminate state-of-the-art simulation research, and (ii) to illustrate how practice has both benefited from and motivated research. Submission of papers on all aspects of simulation from which industrial engineers might benefit are encouraged, including (but not limited to) analysis and modeling methodology, software, and surveys. Specific topics of interest in analysis methodology include random number and variate generation, input and output analysis, variance reduction, ranking and selection, and optimization. Modeling issues include verification and validation techniques, parallelization methods, and object-oriented programming, among others. Software-related papers might discuss new developments in the technology, comparisons between products, or interesting special-purpose programs. We strongly encourage submission of papers with innovative methodological advances.

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## Report on the Simulation Archive

*Simulation Archive Advisory Committee (SAAC)*

*Richard E. Nance (Chair), Robert G. Sargent, James R. Wilson*

Established in the fall of 1998 at the N.C. State Libraries, the Simulation Archive can be accessed at [www.tinyurl.com/simulation-archive](http://www.tinyurl.com/simulation-archive). Much of what is reported here was presented orally by Bob Sargent at the I-Sim Business Meeting at WSC 11 in Phoenix.

We acknowledge the donation of \$5000 from the Special Interest Group on Simulation of the Association for Computing Machinery (ACM/SIGSIM). This action was taken by a vote held at the business meeting at WSC 11, and we thank the membership and the officers of ACM/SIGSIM for their support. We also note that prior significant donations have been made by I-Sim and the American Statistical Association.

The Simulation Archive Endowment at this point slightly exceeds \$35,000. Interest on the endowment funds permits several historical preservation activities such as the digitization of documents to allow Internet access, the organization of individually contributed documents, and the capture, storage, and creation of rare or special artifacts.

The National Science Foundation grant to N.C. State University entitled “Capturing the Oral History of Computer Simulation” is continuing under the direction of Jim Wilson. With SAAC support this effort seeks to capture the impact on and contributions to the early development of the field by early pioneers.

The committee is in contact with Dr. Brian Hollocks of Bournemouth University, a pioneer in UK simulation research and application, regarding a focused monograph on the use of simulation within the steel industry. The objective is to capture the early studies and use within both US and UK steel companies. Related focused monographs are in discussion.

We continue to encourage visits to the Simulation Archive website, and feedback reactions and suggestions for improvement are welcomed. 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](mailto:greg.raschke@ncsu.edu).



# Event Calendar

*Enlu Zhou*

Annual IEEE Systems Conference (SysCon), Vancouver, Canada,  
March 19 – 22, 2012, WWW: <http://ieeesyscon.org/>.

Spring Simulation Multi-Conference 2012, Orlando, FL,  
March 26 - 29, 2012, WWW: <http://www.scs.org/springsim/2012>.

2012 Spring Simulation Interoperability Workshop, Orlando, FL,  
March 26 - 30, 2012, WWW:  
<http://www.sisostds.org/Workshops/UpcomingWorkshops/2012SpringSIW.aspx>.

INFORMS Conference on Business Analytics and Operations  
Research, Huntington Beach, CA, April 15 – 17, 2012, WWW:  
<http://meetings2.informs.org/Analytics2012/>.

IIE Annual Conference and Exposition 2012, Orlando, FL,  
May 19 - 23, 2012. WWW: <http://www.iienet2.org/annual2/>.

INFORMS 2012 International, Beijing, China, June 24 - 27, 2012,  
WWW: <http://meetings2.informs.org/beijing2012/>.

2012 Summer Simulation Multi-Conference, Genoa, Italy, July 8 -  
11, 2012, WWW: <http://scs.org/summersim/2012>.

RESIM 2012 - 9th International Workshop on Rare Event  
Simulation, June 25-27, 2012, Trondheim, Norway, WWW:  
<http://resim2012.item.ntnu.no>.

International Conference on Industrial Engineering and Systems  
Management, Paris, France, April 25 - 26, 2011, WWW:  
<http://www.waset.org/conferences/2012/paris2012/iciesm/>.

2012 IEEE Multi-Conference on Systems and Control (MSC),  
Dubrovnik, Croatia, October 3 – 5, 2012, WWW:  
<http://www.msc2012.org/>.

INFORMS Annual Meeting, Phoenix, AZ, October 14 - 17, 2012,  
WWW: <http://meetings2.informs.org/phoenix2012/>.

Winter Simulation Conference, Berlin, Germany,  
December 9 - 12, 2012, WWW: <http://www.wintersim.org/>.



7240 Parkway Drive  
Suite 310  
Hanover, MD 21076

2011 INFORMS  
Charlotte, NC  
November 13, 2011

*By Seong-Hee Kim, Secretary*

Peter Haas, President of the Society, called the meeting to order at 6:20pm. Departing officers and council/committee members were thanked for their services. He announced that the new I-SIM website is finally ready (special thanks to Theresa Roeder, Pete Welch, and Enlu Zhou) and its address is [www.informs.org/Community/Simulation-Society](http://www.informs.org/Community/Simulation-Society). Any volunteer for columns or reviews on books or papers are welcome. The President encouraged anyone interested to contact the communication committee chair. The President also thanked organizers of the I-SIM 2011 workshop: Pierre L'Ecuyer and Shane Henderson, and Russell Barton for his granting NSF fund to support the workshop. A motion to approve the minutes from the I-SIM business meetings in 2010 was made and the motion passed.

At 6:27pm, Bahar Biller gave the Vice President's report. In INFORMS, there were 16 sponsored sessions and 57 presentations. She thanked to all session organizers. The Vice President invited the I-SIM members to participate or submit their papers for the upcoming conferences:

- WSC 2011 in Phoenix, AZ, December 11-14, 2011.
- The OR Society 2012 Simulation Workshop, Worcestershire, England, March 27-28, 2012.
- INFORMS Conference 2012 Business Analytics and Operations Research, Huntington Beach, CA, April 15-17, 2012.
- INFORMS 2012 International Meeting, Beijing, China, June 24-27, 2012.
- RESIM 2012 International Workshop: Rare Event Simulation, Trondheim, Norway, June 25-27, 2012.

K. Preston White, Jr., the General Chair of WSC 2011, reported some statistics for WSC. Close to 390 papers are accepted, evenly distributed between contributed and invited papers, with over 1000 authors from 40 countries.

At 6:32pm, Seong-Hee Kim gave Secretary's report. As of 10/18/11, the society had 552 active members. There were 162 international members and 172 new members. Thirteen members have kept their memberships since 1976.

John Fowler, Treasurer, reported that the society is in a good shape financially. There were positive \$25,471.47 net revenue from 1/1/11 to 6/30/11 and the ending balance of the society as of 6/30/11 was \$107, 422.16.

Demet Batur gave a report for the Committee on Underrepresented Minorities and Women (CUMW). The goal of this award is inclusiveness and outreach to those who need funding to attend WSC. PhD candidates or recent PhD's within 1-2 years out are eligible and requirements include a reference letter, resume, description of other sources of support and essay (why qualified for UMW status and how would benefit from attendance). It was encouraged that people submit letter of interest and letter of recommendations by November 21<sup>st</sup>. She also reported the status of WSC 11 PhD colloquium. There are 15 final-year students giving talks and 25 posters. Richard Fujimoto of Georgia Institute of Technology is the key note speaker ("On Innovation, and Building and Sustaining a Successful Career in Research"). She encouraged members to attend the colloquium.

At 6:34pm, an announcement was made for seeking inputs on nominations for new officers including Vice-President/President Elect, Treasurer, Secretary, and two Council members (one from outside the United States). Self-nomination is acceptable. Ballots will be in early spring newsletter.

Journal editors gave reports. Doug Morrice encouraged members to submit strong application papers with high impact to *Interfaces*. Shane Henderson announced that Steve Chick would be the new area editor of *Operations Research*. A motion to dismiss approved and the meeting adjourned at 6:39pm.

**Attendees:** In the interest of preventing email address harvesting, email addresses have been disguised. To get the true email address, replace <of> with @.

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INFORMS Simulation Society Business Meeting  
2011 Winter Simulation Conference  
Phoenix, AZ  
December 13, 2011

By Seong-Hee Kim, Secretary

Peter Haas, President of the Society, called the meeting to order at 6:15pm and each person at the meeting introduced themselves (name and affiliation).

At 6:20pm, the President thanked council and committee members. He also thanked departing officers and council/committee members. The departing members are Loo Hay Lee and John Shortle from Council; Dick Nance, Christos Alexopoulos and Russell Cheng from awards committees; Bahar Biller from Committee for Underrepresented Minorities and Women (CUMW); and D. J. van der Zee from Ph.D. Colloquium Committee. Bahar Biller will be next President of the Society.

The new INFORMS Simulation Society (I-Sim) website is ready (<http://www.informs.org/Community/Simulation-Society>) and special thanks was given to Theresa Roeder, Pete Welch, and Enlu Zhou for their hard work to make it happen.

I-Sim 2011 Workshop was successful. The President thanked Pierre L'Ecuyer and Shane Henderson for organizing the workshop and Russell Barton, the NSF program director, for providing financial support. There will be a special issue in the ACM Transactions on Modeling and Computer Simulation (TOMACS) for papers and posters presented in the Workshop.

At 6:22pm, a motion to approve the minutes from an I-Sim business meeting at 2011 INFORMS was made and the motion passed.

Peter Haas gave Vice President's report instead of Bahar Biller, the Vice President of the Society. He reported on the 2011 INFORMS conference in Charlotte, NC. The Society sponsored 16 sessions with 57 presentations. He thanked 16 session organizers. There are several upcoming events:

- *The OR Society 2012 Simulation Workshop* in Worcestershire, England, March 27-28, 2012 (there will be a special issue in the Journal of Simulation).
- *INFORMS Conference 2012: Business Analytics and Operations* in Huntington Beach, CA, April 15-17, 2012.
- *INFORMS 2012 International Meeting* in Beijing, China, June 24-27, 2012 (submission deadline is February 13, 2012 – contact Bahar Biller for participation).
- *RESIM 2012 International Workshop: Rare Event Simulation* in Trondheim, Norway, April 20, 2012.

Seong-Hee Kim gave the Secretary's report. As of 12/07/11, there were 601 active members coming from 42 different countries and 171 of the 601 members were international members. Members were reminded to renew their subscriptions.

At 6:27pm, Demet Batur gave the report for CUMW. Other committee members are Hong Wan and Feng Yang. CUMW award recipients are Toni Sorrell (Virginia Commonwealth University), Zhang Si (National University of Singapore), and Juan Li (Columbia University).

At 6:29pm, John Fowler gave the Treasurer's report. I-Sim is in a good financial shape. Its current balance as of June 30, 2011 was \$107,422.16 with an increase of \$25,470.47 from January to June, 2011.

Doug Morrice gave WSC update. The following policy was approved last year:



I-Sim will hold in reserve the minimum of (a) \$40,000 or (b) 50% of I-Sim's exposure as of December 20 of each year for future WSC's. The reserve may be in the form of seed money provided to WSC, a reserve account held within I-Sim, or a combination thereof.

By this policy, I-Sim needs to keep aside money to cover potential financial losses due to future WSC conferences. WSC total exposure for future conferences is \$391,730 and I-Sim's exposure is \$97,932. Thus, as of December 15, 2011, the reserve is  $\min(\$40,000, 0.5 * \$97,932) = \$40,000$  and WSC holds \$20,750 in retained fund and I-Sim holds \$19,250. Jim Wilson asked if the financial exposure policy is to cover the possibility of cancellation of future conferences. Doug answered that INFORMS now handles cancellation insurance, but there are typically items that are not covered such as food purchased, hotel rooms blocked, etc. The money that I-Sim holds is meant to cover such expenses.

The President welcomed Ph.D. colloquium students at 6:33pm and thanked the keynote speaker and organizers (Ali Tafazzoli, Nurcin Celik, Margaret Loper, and Andreas Tolk). Ali Tafazzoli reported for the WSC PhD Colloquium. Richard Fujimoto of Georgia Tech was the keynote speaker ("On Innovation, and Building and Sustaining a Successful Career in Research"). The Colloquium was jointly sponsored by I-Sim and ACM/SIGSIM. The format of this year's Colloquium mirrored the main conference with a speakers lunch, a keynote, 15 oral presentations with four themed sessions, and 27 posters. There were 42 participants this year with 15 of them in their final year. These 15 students gave oral presentations on the four themed sessions. There were eight contenders for the best student paper awards and two winners were selected. The new committee chair for 2012 Ph.D. colloquium will be Andreas Tolk (Old Dominion University).

Nominations Committee consists of Mike Kuhl (chair), Barry L. Nelson, and Shane Henderson. The committee is seeking input on nominations to serve 2012-2014 for the following positions: Vice-President/President Elect, Treasurer, Secretary, and two Council Members (one from outside the United States). Additional nominations via petition will be accepted through March 1, 2012. Ballots will appear in the Spring Newsletter.

Editors' reports:

- Marvin Nakayama for the Journal on Computing. He thanked associate editors (Russell Barton, James Calvin, Raghu Pasupathy, and Bruno Tuffin) for their service. For one-year period ending October 25, 2011, there were 13 new submissions and 16 resubmissions with 8 acceptances and 10 rejections. Marvin Nakayama encouraged people to submit high-quality simulation papers with computing aspect to the journal.
- Shane Henderson for Operations Research. He thanked associate editors (Steve Chick, Peter Haas, Tito Homem-de-Mello, Jeff Hong and Seong-Hee Kim) for their 6 years' service. The new area editor for Operations Research will be Steve Chick.
- Sheldon Jacobson for IIE Transactions. The department editors are Chun-Hung Chen and Enver Yücesan. From January 2011 to October 2011, there were 9 new submission with 1 acceptance, 6 rejections and 2 revisions/resubmissions. For the special issue on "simulation optimization and its applications", 21 submissions have been received and all are currently under review.
- Pierre L'Ecuyer for TOMACS. There were 142 submissions in 2011 with 56 immediate desk rejections by Editor-in-chief, 14 acceptances, 42 pending manuscripts with TOMACS, and 10 manuscripts in revision with authors. There are three special issues: simulation methods in statistics (guest editors: C. Robert and A. Doucet), simulation in complex service systems (guest editors: P. Haas, S. Henderson, and P. L'Ecuyer), and high-performance distributed systems (guest editors: K. Morse, W. Cai).
- Doug Morrice for Interfaces. Doug introduced Interfaces. This journal publishes manuscripts focusing on the practice of OR/MS and the impact this practice has on organizations throughout the world. Nontraditional papers are encouraged such as those that describe teachable failures. Tutorials, review articles, and book reviews are also key elements for the journal. Good application papers in public sectors were encouraged to be submitted to this journal.
- Peter Glynn for Stochastic Systems. This is a new (free) open access journal cooperatively published by the INFORMS Applied Probability Society and Institute of Mathematical Statistics. The first issue has just appeared. Its focus will be on stochastic modeling and related methodology arising from man-made systems

including operations management, finance, networks etc. Simulation is of definite interest. Associate editors with simulation expertise includes Jose Blanchet, Paul Glasserman, Peter Glynn, Shane Henderson, and Assaf Zeevi. Typical time to the first set of reports is 3 to 6 months (the goal is roughly 3 months). He encouraged people to submit high-quality work in the simulation area to the journal.

At 6:43pm, Bob Sargent gave a report on Simulation Archive whose URL is <http://www.tinyurl.com/simulation-archive>. The members of the Simulation Archive Advisory Committee are Richard Nance (chair), Robert Sargent, and Jim Wilson. The Archive's endowment is \$31,270. Harry Markovitz (a Nobel Prize winner in economics) and Phil Kiviat made contributions to the Archive, donating their materials in simulation. Jim Wilson received an NSF grant on "A Retrospective Oral History of Computer Simulation". WSC Titan presentations are in the Archive. High-quality digitization of all back numbers of the WSC Proceedings from 1968 to 1996 is currently ongoing. He encouraged people to make tax-deductible donations for the Simulation Archive Endowment. He also thanked all the individuals and I-Sim who have helped in the establishment and advancement of the Simulation Archive.

New business:

There was no new business and the meeting moved to awards at 6:48pm.

Awards:

- For WSC 2011 Best Student Paper Awards, Rolf Waeber (Cornell) won the best MS/OR-focused paper award for his paper "A Bayesian approach to stochastic root finding" with Peter Frazier and Shane Henderson. Juan S. Corredor (University of Miami) won the best CS-focused paper award for his paper "Utility resource planning" with Nurcin Celik, Shibah Asfour, and Young-Jun Son.
- Thanos Avramidis presented the Outstanding Publication Award (other committee members were Peter Glynn and Pierre L'Ecuyer). The award went to Michael B. Giles (Oxford University) for his paper "Multilevel Monte Carlo path simulation" which appeared in Operations Research in 2008.
- K. Preston White, Jr. presented the Distinguished Service Award (other committee members were Russell Barton and Peter Welch). Pierre L'Ecuyer was selected as this year's recipient. He organized and chaired the 2011 I-Sim Workshop. He is the Editor-in-chief for TOMACS since 2010 and associate editors for five additional journals. He won the I-Sim Outstanding Publication Award in 1999 and again in 2009 and was elected as INFORMS Fellow in 2006. He has published more than 200 scholarly papers.
- Averill M. Law presented the Lifetime Professional Achievement Award, the highest honor in the society. Other committee members are Reuven Rubinstein and Enver Yücesan. This year's recipient is Peter A.W. Lewis of Naval Postgraduate School. His pioneering work in simulation theory and methodology includes (i) input modeling especially time-series models and non-stationary point processes; (ii) random-number generation algorithms that were adapted to successive generation of computers from the mid 1960s to the late 1980s; (iii) efficiency-improvement techniques such as variance-reduction methods based on control variates and nonlinear transformations; (iv) output-analysis techniques such as the regenerative methods, quantile estimation, and graphical analysis; and (v) ground-breaking applications of modeling and simulation in domains such as telecommunications systems, information retrieval, Linguistics, health systems, animal science, sea-surface temperatures and river flow. Lee Schruben made a statement that he provided a critical link, a tipping point, in the intellectual evolution of simulation. Vlad Lewis and Natasha Smith, Peter Lewis' son and daughter, donated the \$1000 cash prize for the LPAA to the WSC Foundation Fund. This makes them Sustaining Patrons and their names will appear on the WSC Foundation donor list as "Vlad Lewis and Natasha Smith, in memory of Peter A. W. Lewis" in all future WSC programs.

A motion to dismiss approved and the meeting adjourned at 7:05pm.

**Attendees:** In the interest of preventing email address harvesting, email addresses have been disguised. To get the true email address, replace <of> with @.

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## Ballot for Election of I-Sim Officers

To vote in the election for I-Sim Officers and Council Members, return the ballot below by e-mail or mail by May 31, 2012 to:

Professor Michael Kuhl  
Industrial and Systems Engineering Department  
81 Lomb Memorial Drive  
Rochester Institute of Technology  
Rochester, NY 14589-5603

E-Mail: [Michael.Kuhl@rit.edu](mailto:Michael.Kuhl@rit.edu)

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)

\_\_\_\_\_ Seong-Hee Kim, Georgia Tech  
\_\_\_\_\_ Theresa M. Roeder, San Francisco State University

### SECRETARY (Vote for one)

\_\_\_\_\_ Loo Hay Lee, National University of Singapore  
\_\_\_\_\_ Young-Jun Son, University of Arizona

### TREASURER (Vote for one)

\_\_\_\_\_ Victor W.K. Chan, Rensselaer Polytechnic Institute  
\_\_\_\_\_ John Shortle, George Mason University

### COUNCIL (Vote for up to two)

\_\_\_\_\_ Demet Batur, University of Nebraska-Lincoln  
\_\_\_\_\_ Zdravko I. Botev, The University of New South Wales, Sydney  
\_\_\_\_\_ Peter Frazier, Cornell University  
\_\_\_\_\_ Sujin Kim, National University of Singapore  
\_\_\_\_\_ Feng Yang, West Virginia University

(Name 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.)

Name (Print): \_\_\_\_\_

Signature: \_\_\_\_\_



## Brief Biographical Sketches of Candidates for I-Sim Officers

### Vice-President/President-Elect

**SEONG-HEE KIM** is an Associate Professor in the H. Milton Stewart School of Industrial and Systems Engineering at Georgia Institute of Technology. She received her M.S. and Ph.D. in industrial engineering and management sciences from Northwestern University. She also holds a bachelor degree in industrial management from KAIST, Korea. Her research interests center on ranking and selection procedures for stochastic simulation, optimization via simulation, statistical output analysis, quality control, and applications of simulation methods to environmental management. She served as an associate editor in the simulation area of Operations Research and OR/simulation area of The American Statistician. She also served on an editorial board of IIE Transactions. She was Treasurer in 2006-2008 and is currently Secretary for INFORMS Simulation Society.

**THERESA ROEDER** is an assistant professor in the Department of Decision Sciences at the San Francisco State University. She received her Ph.D. in Industrial Engineering and Operations Research from the University of California, Berkeley. She holds B.S. and M.S. degrees in Management Science from Case Western Reserve University. Her research interests lie in the differences between approaches to simulation modeling. More broadly, she has done work on O.R. education and has been consulting on nursing education projects. She has been active in the INFORMS Simulation Society for a number of years, serving as member/chair of the PhD Colloquium and CUMW committees, as Secretary, and currently as Communications Editor.

### Secretary

**LOO HAY LEE** is an Associate Professor in the Department of Industrial and Systems Engineering at National University of Singapore. He received his B.S (Electrical Engineering) degree from the National Taiwan University in 1992 and his S.M and PhD degrees in 1994 and 1997 from Harvard University. He is currently the associate editor for IEEE Transactions on Automatic Control, IIE Transactions, Flexible Services and Manufacturing Journal, the Asia Pacific Journal of Operational Research. He is also the co-editor for Journal of Simulation and is a member in the advisory board for OR Spectrum. He is a senior member of IEEE, and has served as a council member in the simulation society of INFORMS. His research focuses on the simulation-based optimization, maritime logistics which includes port operations and the modeling and analysis for the logistics and supply chain system. For details, please visit [www.ise.nus.edu.sg/staff/leelh](http://www.ise.nus.edu.sg/staff/leelh)

**YOUNG-JUN SON** is a Professor of Systems and Industrial Engineering, Arizona Engineering Faculty Fellow, da Vinci Fellow, and Director of Advanced Integration of Manufacturing Systems and Technologies (AIMST) Center 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 56 journal papers and over 50 conference papers in these areas. He has received the Society of Manufacturing Engineers 2004 Outstanding Young Manufacturing Engineer Award, the Institute of Industrial Engineers 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 the Editor-in-Chief for International Journal of Services Operations and Informatics, a Department Editor for IIE Transactions, and on the editorial board for six additional international journals. He is currently the President of IIE Computer and Information Systems Division. He is the Business Chair for WSC 2012, and has served as co-Program Chair for IERC 2007 and INFORMS Regional Conference 2009, as a Track Coordinator for WSC (8 times), and as a Track Chair for IERC (5 times).

### Treasurer

**VICTOR W.K. CHAN** is an Associate Professor of Industrial and Systems Engineering at Rensselaer Polytechnic Institute (RPI), Troy, NY. He received his Ph.D. in industrial engineering and operations research from University of California, Berkeley. He is interested in both discrete-event simulation and agent-based simulation. He believes that

simulation is not just a pure experimental tool but more a basic science that is providing support and enabling breakthroughs in various fields. Currently, he is conducting simulation-enabled research in social networks, disaster management, energy, and healthcare. He has served as a chair and co-chair of the agent-based simulation track, analysis methodology track, Ph.D. colloquium, and several sessions in past Winter Simulation Conferences. More information can be found at <http://eng.rpi.edu/soe/index.php/faculty/154?soeid=chanw>.

**JOHN SHORTLE** is an Associate Professor of Systems Engineering and Operations Research at George Mason University and a member of the Center for Air Transportation Systems Research at GMU. His research interests are in applications of simulation to air transportation, aviation safety, telecommunications, and energy. He has served as a proceedings co-editor for the 2007 Winter Simulation Conference, and has supported the proceedings committee for several years prior to that. He served on the I-Sim council from 2009-2011. He is an associate editor for *IEEE Transactions on Reliability, Energy Systems*, and the *Journal of Probability and Statistical Science* and a member of the technical staff at US WEST Advanced Technologies. For work there, he received the Daniel H. Wagner Award for Excellence in Operations Research Practice. John received a B.S. in Mathematics from Harvey Mudd College and a Ph.D. and M.S. in Industrial Engineering and Operations Research from UC Berkeley.

## Council

**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 the Committee for Underrepresented Minorities and Women (CUMW) of the INFORMS Simulation Society since 2010. For more information please see her website at <http://cba.unl.edu/people/dbatur>.

**ZDRAVKO BOTEV** is a lecturer in the Department of Statistics at the University of New South Wales in Sydney. He has contributed to the splitting method for rare-event probability estimation and kernel density estimation. He is the author of one of the most widely used Matlab software scripts for nonparametric density estimation and has co-authored the "Handbook of Monte Carlo Methods", published by Wiley in 2011. He received his PhD in 2010 from the University of Queensland, Australia. Amongst his awards is a competitive Cambridge University Postdoctoral Fellowship.

**PETER FRAZIER** is an assistant professor in the School of Operations Research and Information Engineering at Cornell University. He received a Ph.D. in Operations Research and Financial Engineering from Princeton University in 2009. His primary research interest is in simulation optimization, and he also works more broadly in sequential decision-making under uncertainty and Bayesian statistics. He is an associate editor for the simulation area at Operations Research, and a special editor for IIE Transactions, for the special issue on simulation optimization. He received an AFOSR Young Investigator Award in 2010, the Best Student Paper Prize (OR/MS focused) at WSC 2011 (with Rolf Waber and Shane Henderson), and was a Finalist in the 2011 INFORMS Junior Faculty Interest Group Paper Competition (with Jing Xie). He served on the program committee for the 2011 I-SIM Research Workshop, is currently serving on the program committee for the Analysis Methodology track at WSC 2012, and frequently organizes I-SIM sessions at INFORMS meetings.

**SUJIN KIM** is an Assistant Professor in the Department of Industrial and Systems Engineering at the National University of Singapore. She received her Ph.D. in operations research and industrial engineering from Cornell University. Her research is positioned at the interface between simulation and stochastic optimization, with applications in the design and operations of electric power networks, as well modeling complex interactions in the energy market. Her work has appeared in Mathematics of Operations Research, ACM TOMACS, and the Journal of Quality Technology. Her research is supported by ExxonMobil Research & Engineering. She has been a member of the INFORMS Simulation Society since 2004, and is a regular contributor and session organizer for the Winter Simulation Conference.

**FENG YANG** is an Assistant Professor in the Industrial and Management Systems Engineering Department at West Virginia University. She received her Ph.D. degree in Industrial Engineering and Management Sciences from Northwestern University in 2006. Her research focuses on metamodeling, design of experiments, and applied statistical methods. She is interested in developing methods for production planning in manufacturing, service management, toxicology studies of nanomaterials, and sensor-related applications. Her research has been supported by National Science Foundation, National Institute of Health, and NASA. She is currently a member of the Committee for Underrepresented Minorities and Women (CUMW) of the INFORMS Simulation Society. She has served as session chairs for the INFORMS annual meetings and the Winter Simulation Conferences.