

informatics
College on
Simulation

INSTITUTE FOR OPERATIONS RESEARCH
AND THE MANAGEMENT SCIENCES

NEWSLETTER

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President's Message

I begin my term as President of INFORMS College on Simulation with mixed emotions. On the one hand, I am excited by the prospect of what lies ahead for the simulation community in the new millennium, but on the other I am saddened by the passing of Alan Pritsker, one of the leading figures in our community. As you know, Alan received the College's Lifetime Professional Achievement Award at the 1999 Winter Simulation Conference in Phoenix, and we held a reception for him after the business meeting there. It was a wonderful event, preceded by Alan's taking us through some of the notable memories of his career in simulation. Alan's remarks were followed by a poignant moment when Alan stood before us with his family beside him to receive our standing ovation for his tireless work on behalf of the simulation community.

Jim Wilson and Dave Goldsman have co-edited a special issue of *IIE Transactions* in honor of Alan. By arrangement with Kluwer Academic Publishers, this special issue will be available to college members shortly. The details for distribution are yet to be worked out, but when they are we will post the information on our website for all to see.

The web enables us to get such information to you faster than ever. A good example is this newsletter, which is the second to be distributed electronically. One of the issues on the agenda for discussion at the business meeting in Orlando is how we wish to deliver information to the members. Should we continue to issue two newsletters per year as mandated by our by-laws? Since we keep our website updated continually some would argue that regular compilation of the website information into a newsletter is unnecessary. Others prefer to keep the newsletter as a periodic collection of information for the community, and as a way to stay in touch with the membership.

Another issue we will consider is the frequency of business meetings. One of the articles in our by-laws states that we shall have at least three meetings each year in conjunction with the Fall and Spring meetings of INFORMS and the Winter Simulation Conference. Because INFORMS has changed the nature of the Fall and Spring meetings, we may not be able to draw a quorum at the Spring meeting. If we can have only two business meetings per year—both typically held sometime between mid-October and mid-December—does this mean that we need to publish the newsletter only once per year, or does it make publishing a newsletter in the Spring even more important to serve our purposes of developing and disseminating simulation knowledge and promoting interaction among those interested in simulation? Be sure to attend the business meeting in Orlando to share your insights on these and the other agenda items.

The election results are in. Susan Sanchez is the new Vice President/President-Elect, and Russell Barton is the Secretary/Treasurer. Please congratulate Susan and Russ and thank them for volunteering their time. I would like to thank the members of the standing committees for their efforts: Perwez Shahabuddin (Chair), Michael Fu, and Pierre L'Ecuyer on the Outstanding Simulation Publication Award Committee; David Kelton (Chair), Jerry Banks, and Bruce Schmeiser on the Distinguished Service Award Committee; and Dave Goldsman (Chair) and Julian Reitman on the Lifetime Professional Achievement Award Committee. I would also like to thank Martha Centeno for agreeing to chair the Committee on Women and Underrepresented Minorities, which is especially important in its efforts to bring diversity to the college membership.

Another special thanks goes to the people who work hard to bring you the newsletter. Steve Chick is Editor, and Shane Henderson is Associate Editor of the Newsletter for the next two years. Their

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Editor's Corner

This *Newsletter* highlights the Winter Simulation Conference, whose theme is a "New Simulation Millennium", a conference that many of us will soon be attending. It also highlights a memorial for the passing of Alan Pritsker, who played a significant role in the development of simulation theory and practice through the present time. We also present a number of regular Newsletter features, such as the conference listings, award notices, journal updates, and College on Simulation business.

Russell Barton has passed the Newsletter Editor's torch to me beginning with this issue, and I'm grateful for his help in getting me up to speed. I'm looking forward to working with the new Associate Newsletter Editor, Shane Henderson, who many of you know from conferences, or from his work at SNET (<http://or.stanford.edu/~snet/>).

The shift of the newsletter to a primarily electronic distribution system went rather smoothly. A number of individuals requested a paper copy, but by and large a majority of us indicated a preference for an electronic version. An updated email address is an important part of this process, and page 12 of this newsletter indicates how to do so. This issue includes some color photos, thanks to the flexibility of the WWW. I encourage you to submit items that can take advantage of more features of the WWW, such as video clips of award ceremonies, interactive software, practitioner interviews, plant visits, and more. In addition, an electronic *Newsletter* can include links to other web sites, which may contain papers, conference announcements, video clips, and so forth.

Our *Newsletter* depends on the contributions of many folks for each issue. Particular thanks go to Russell Barton, John Charnes, Paul Fishwick, Michael Fu, Paul Glasserman, David Goldsman, Marion Hedger, Shane Henderson, David Kelton, Rich Kilgore, Connie Nott, Susan Sanchez, Roger Smith, Michael Taaffe, Peter Welch, Jim Wilson, and Bill Yurcik for their contributions to this issue.

See you in Orlando!

Steve Chick

Get on the Web and see the *INFORMS College on Simulation World Wide Web* page. You'll get more than just a newsletter. Its URL is

<http://www.informs-cs.org/>

This web page is designed to be a general source of information and WWW links for the simulation community, with a particular focus on College interests and activities. The main page headings include *College Information*, *College Newsletter*, *Conferences and Workshops*, and *Simulation Information and Links*. There are often additional special items, such as WSC'00, and upcoming *INFORMS* conferences. The WWW address for WSC'00 is <http://www.wintersim.org/>



INFORMS College on Simulation Newsletter is published in the Spring and Fall of each year by the *INFORMS College on Simulation*. Membership in the *College on Simulation* is independent of membership in *The Institute for Operations Research and the Management Sciences*. The annual membership fee for non-*INFORMS* members is \$7.50; *INFORMS* members may join for \$5. The fee for students and retired members is \$2.

To join, send name, address, and e-mail address (if applicable), with the appropriate fee, to: Russell R. Barton, Russell R. Barton, Industrial & Manufacturing Engineering, The Pennsylvania State University, 209 Leonhard Building, University Park, PA 16802 USA. Please make checks payable to *INFORMS College on Simulation*. Please pass along this announcement to others who might be interested in joining. POSTMASTER: Send address changes to *INFORMS College on Simulation Newsletter*, c/ Russell R. Barton, Russell R. Barton, Industrial & Manufacturing Engineering, The Pennsylvania State University, 209 Leonhard Building, University Park, PA 16802 USA.

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INFORMS College on Simulation Treasurer's Report

	Net Worth June 30, 2000
ASSETS	
Cash and Bank Accounts	
INFORMS Account*	7,934.30
INFORMS-CS Checking Account	9,430.06
TOTAL Cash and Bank Assets	17,364.36
TOTAL ASSETS	17,364.36
<hr/>	
LIABILITIES	
Outstanding Checks	80.00
<hr/>	
NET WORTH	17,284.36

* Headquarters Account funds are held by the *INFORMS* office: 901 Elkridge Landing Road; Suite 400; Linthicum MD 21090-2909. Reported figures are unaudited totals from fiscal year 1999. Checking account funds on deposit with Mercantile BankN.A., account number 151030282-9, Creve Couer branch office, P.O. Box 524, St. Louis, MO 63166-0524.

** Interest income from the account held at *INFORMS* headquarters is not calculated until the end of the calendar year. Dues income collected at *INFORMS* headquarters is the amount received through 6/30/00: the latest figures available.

	2000 Year-to-Date Cash Flow report October 31, 2000
INFLOWS**	
Dues Income (Headquarters)	1,961.50
Dues Income (Direct)	80.00
WSC'99 Seed Return	2,000.00
WSC'99 Final Disbursement	4,000.00
TOTAL INFLOWS	8,041.50
<hr/>	
OUTFLOWS	
WSC 2000 Seed Money	2,000.00
WSC 2000 Board Travel	306.79
'99 Distinguished Service	733.50
'99 Best Publications	500.00
'99 CUMW Awards	348.88
'99 Ph.D. Colloquium	560.00
Misc. Supplies/Copies	41.77
Bank Charges/Software	2.60
Newsletter expenses	51.00
Business meeting expenses	20.90
TOTAL OUTFLOWS	4,565.44
<hr/>	
NET CASH FLOW (estimate)	+3,476.06

*Respectfully submitted by Susan M. Sanchez, Secretary/Treasurer,
November 1, 2000.*

Report on the INFORMS College on Simulation Business Meeting, INFORMS Spring Meeting, Salt Lake City, May 7, 2000

Michael R. Taaffe, President, presiding

PRELIMINARIES: The meeting was called to order by President Michael Taaffe. The attendees briefly introduced themselves.

REPORTS: Mike Taaffe announced that the *INFORMS-CS* representatives to the WSC Board of Directors are James R. Wilson and Barry L. Nelson.

Susan Sanchez recapped highlights of the Phoenix WSC '99 *INFORMS-CS* business meeting. For details, see the minutes on the web page or Spring 2000 newsletter.

John Charnes listed the sponsored sessions at the Salt Lake City *INFORMS* meeting.

Susan Sanchez gave the treasurer's report. Since dues are going up and the newsletter is being distributed electronically, I-CS once again appears to be on sound financial footing. Dean Hartley requested that better refreshments be provided at the business meetings.

Dave Goldsman reported that membership in the College is up. We are one of the larger subdivision in terms of overall membership. Dave also reported on the Committee on Underrepresented Minorities and Women hosted 6 graduate students and one advisor for the past WSC.

The *INFORMS-CS* Archives and History projects are proceeding. Anyone with relevant materials or information should contact Jim Wilson. Jim was successful in gaining permission from the WSC Board for the College to post all recent and future WSC Proceedings on the web. '97 through '99 Proceedings are now available.

Russell Barton was thanked for his excellent work during his term as Newsletter Editor. Steve Chick is the incoming Editor, and Shane Henderson is the incoming Associate Editor. As approved in the prior business meeting, the newsletter will be posted on the web. Members of the College will be notified by brief e-mails containing a link to the appropriate page. Hard copies will be provided only on request.

Attendees were referred to the Spring Newsletter for detailed Area Editors' Reports, as well as reports on the highly successful WSC '99.

NEW BUSINESS: Mike Taaffe reminded those attending of the May 31, 2000 deadline for voting in the election for new *INFORMS-CS* officers. Once again, the topic of *INFORMS-CS*' role in the *INFORMS* meetings was discussed. The simulation track has shrunk over the years at the fall meetings. One difficulty is finding people to give talks so close to WSC, particularly since it's undesirable to give the same talk at two conferences. It is unclear whether the College will participate on a regular basis in the spring *INFORMS* meetings. A suggestion from the floor was to see whether *INFORMS* might consider moving the fall meeting to early October to alleviate this problem. If *INFORMS-CS* has a large membership they might have some voice in the meeting time selection.

Barry Nelson thanked Mike Taaffe for his service as *INFORMS-CS* President. He received a rousing round of applause from the attendees.

Respectfully submitted by Susan M. Sanchez, Secretary/Treasurer

WSC'00: *The New Simulation Millennium*

2000 Winter Simulation Conference

December 10-13, 2000

Orlando, Florida USA

<http://www.wintersim.org/>



The 2000 Winter Simulation Conference will be held at the [Wyndham Palace Resort & Spa](http://www.wintersim.org/) in the [Walt Disney World Resort](http://www.waltdisneyworld.com/), 1900 Buena Vista Drive, Lake Buena Vista, FL 32830, U.S.A. Phone: (407) 827-2727 or (800) 327-2990. All sessions will be held at the hotel. Meeting room assignments will be provided in the Final Program, which will be distributed at the conference. On-line registration, hotel accommodation, and travel information is available on the WWW at <http://www.wintersim.org/registration.htm>. From education to entertainment, from training to transportation, from animation to antithetic variates, the art and science of modeling and simulation has progressed at a rapid rate during the last half of this century. But the dawn of the New Simulation Millennium is now upon us and the place to explore the next great advancements in modeling is at the '00 Winter Simulation Conference. In the New Simulation Millennium, the separation between technologies supporting simulation for science and entertainment will blur. And in the New Simulation Millennium, the Winter Simulation Conference will be at the forefront of this change as we seek to assemble the leaders in all of the related simulation and animation disciplines in one magical place for the kind of networking that you just can't get from a web page.

Accommodations

The Wyndham Palace Resort and is expansive and within a short walking distance of Downtown Disney, home of Disney Marketplace, Pleasure Island, West Side, numerous theme restaurants, and Disney Quest-a multi-tiered complex chock-full of 3D virtual reality and simulation environments. The conference hotel is also minutes from all major theme parks via the complimentary hotel bus. The Wyndham Palace Resort and Spa has over 1000 rooms and suites, including five restaurants and four swimming pools together with spas, tennis courts, a marina, a fitness center and a large number of other amenities. For the kids, there is the popular Disney Character Breakfast on Sunday, along with a supervised kids program.

Transportation

The Wyndham Palace Resort and Spas located 35 minutes from the airport. Transportation options available to the hotel are: 1) the Shuttle Van which departs from Mears transportation booths located curbside in the baggage claim areas of A, B and C terminals (Service is a shared ride with other hotels in the same area with a charge of \$15.00 one way/\$27.00 round trip.) and 2) taxi, located outside terminal with a charge of \$35.00 to 37.00 one way.

Keynote Speaker

Richard Kidd, Freelance Visual Effects Consultant, will speak on "The Changing Face of Entertainment and the Driving Force Behind It: Computer Simulation". Mr. Kidd has established a leadership role for digital effects in the film industry, having worked on "The Island of Dr. Moreau", "Titanic", and "The Matrix", among others. In his abstract, he indicates that as "desktop computers become supercomputers and multiple CPUs on the desktop become the norm, our mathematical models will become increasingly complex" for entertainment. This increase will lead to more accurate simulations, thereby changing the faces of entertainment and blurring the lines of reality.

Military and Simulation Education Keynote Speakers

David Alberts will present the Military Keynote, " Information Superiority and Simulation Models". Dr. Alberts is currently the Director, Research and Strategic Planning, Office of Assistant Secretary of Defense (C3I), at the Pentagon. Richard Nance, the Simulation Education Keynote speaker, with discuss "Simulation Education: Past reflections and future directions". Dr. Nance is the RADM John Adolphus Dahlgren Professor of Computer Science and the Director of the Systems Research Center at Virginia Tech (VPI&SU), and is also Chairman of the Board of Orca Computer, Inc.

Sunday Events: PhD Colloquium, and Poster Session

The PhD colloquium from 4:00-6:00 pm is an opportunity for recent graduates or those who will soon graduate to present their work, to view the work of others, and to hear experienced simulation researchers provide important career information. Bob Sargent, of Syracuse University, will be presenting the Colloquium Keynote address. The Poster Session will follow from 6:00-8:30 pm. All are encouraged to attend.

Sunday Event: Exhibitor Training Sessions

WSC '00 exhibitors are hosting training sessions on Sunday afternoon from 2:00-5:00 pm for attendees to get product information and demonstrations. In addition, there will be non-vendor presentations as well. Many vendors will also host user group meetings on Tuesday evening. The Exhibit Area will be open from Sunday through Tuesday. Feel free to request demo disks for software that seem appropriate for your technical needs.

KidSim: Simulation KIDS for the New Millennium

For our generation, the first exposure to simulation was probably a pack of baseball cards and a pair of dice. For our children's generation, the first exposure is likely to be a 3-D, multi-color, interactive, urban planning computer software game like SimCity. The gaps between entertainment, education and industry usefulness are closing and our ability to educate future customers and associates can begin at a much earlier age . . . WSC'00 is showing great vision in this year with the introduction of KidSim.

WSC'00 would like to extend an invitation to all participants to visit the KidSim exhibit. Here is your chance to introduce your children to your profession in a fun and educational way.

See some of the spectacular new simulation entertainment products like SimCity, the Sims, SimThemePark or some of the pioneer sports and game software products. KidSim is a place to have fun and maybe learn a bit about the narrowing gap between what some of us do for industrial customers and what other software companies are doing for entertainment.

Come on over and try out some of the software yourself, or give the kids a thrill by watching what their creativity can produce. We will have adults and real kids in the area to get you started and to help you when the "unexpected tornado starts a citywide emergency" or "your roller coaster is making the customers sick". Every participant is automatically registered for free-software give-aways and prizes for those who want to display and demonstrate some of their simulation creativity.

So bring your kids or just come by and watch the next generation of simulation professionals creatively approach urban growth, unexpected disasters, and highly variable random events. KidSim 2000 is sponsored by Rich Kilgore and ThreadTec.

SimMedia Theater

WSC 2000 will introduce a new event entitled SimMedia Theater (<http://www.wintersim.org/simmedia.htm>). This is an educational and entertaining multimedia presentation of applications of simulation technology. The goal of this event is to illustrate a few of the wide variety of applications of simulation and to do so in a format that is entertaining. It is sort of a home-brew version of NOVA or the Discovery Channel. The show was created by compiling over twenty videotapes and multimedia files contributed by our sponsors.

SimMedia Theater is only possible because organizations involved in simulation were willing to contribute their videotapes and multimedia files for us to show at the conference. We are indebted to Delmia, AutoSim, I-SIM, INFORMS, ACM SIGSIM, Autometric, SGI, STK, SPOT Imaging, BAE Systems, the Discovery Channel, Maxis Software, DaimlerChrysler, Boston Dynamics, ModelBenders, Lockheed Martin, US Air Force, US Army, US Navy, DARPA, DMSO, Georgia Tech, UCF IST, University of Florida.

The event is scheduled for the London Conference Room, Monday 5:00-6:00PM for Industrial Simulation Applications, and Tuesday 5:00-6:00PM for Military Simulation Applications.

Proceedings

The WSC Proceedings will be produced in both hardcopy and CD-ROM. The registration fee provides each attendee with the CD-ROM version of the Proceedings and a hardcopy version of the Final Program containing the abstracts of all Proceedings entries as well as the locations and times of all presentations. The CD-ROM will be fully searchable; documents can be viewed or printed using the Adobe Acrobat reader, which will be included. For an additional fee, attendees may obtain the hardcopy version of the Proceedings, which is a two-volume, softbound book printed on acid-free paper. The printed Proceedings will be available through the following options: printed Proceedings onsite for early registrants at \$45 each, printed Proceedings for standard registrants (shipped 6-8 weeks after the conference) at \$75 each.

Meeting Schedule

Sunday, December 10

Noon-6:00 pm Registration Open
 2:00 pm-3:20 pm Special Presentations - First Sessions
 3:40 pm-5:00 pm Special Presentations - Second Sessions
 4:00 pm-6:00 pm Ph.D.-Student Colloquium
 5:00 pm-6:00 pm First-Time Attendee Orientation
 6:00 pm-8:30 pm Poster Session

Monday, December 11

7:00 am-6:00 pm Registration Open
 7:00 am-7:00 pm Speakers' Ready Room Open
 7:00 am-8:30 am Speakers' Breakfast
 8:00 am-9:30 am Spouse/Guest Breakfast
 8:30 am-10:00 am Opening Session
 10:00 am-10:30 am Coffee Break
 10:00 am-5:00 pm Exhibits Open
 10:30 am-5:00 pm Technical Program Sessions
 3:00 pm-3:30 pm Coffee Break
 5:00 pm-6:00 pm Sim Media
 6:00 pm-8:00 pm Reception

Tuesday, December 12

7:00 am-6:00 pm Registration Open
 7:00 am-7:00 pm Speakers' Ready Room Open
 7:00 am-8:30 am Speakers' Breakfast
 8:30 am-5:00 pm Technical Program Sessions
 9:00 am-5:00 pm Exhibits Open
 10:00 am-10:30 am Coffee Break
 3:00 pm-3:30 pm Coffee Break
 5:00 pm-6:00 pm Sim Media
 5:15 pm-6:30 pm INFORMS-College on Simulation Meeting
 5:15 pm-6:30 pm ACM/SIGSIM & IEEE/CS Meeting
 5:15 pm-6:30 pm SCS Meeting
 6:30 pm-8:30 pm Vendor User Groups

Wednesday, December 13

7:00 am-Noon Registration
 7:00 am-11:00 am Speakers' Ready Room Open
 7:00 am-8:30 am Speakers' Breakfast
 8:30 am-Noon Technical Program Sessions
 9:00 am-Noon Exhibits Open
 10:00 am-10:30 am Coffee Break

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In Memoriam: A. Alan B. Pritsker (1933–2000)

Alan Pritsker, one of the founders of the field of computer simulation, passed away on August 24, 2000. Over the course of his forty-five year career, Alan made seminal contributions to many areas of the field of simulation and to the larger fields of industrial engineering and operations research. Comprehensive documentation of Alan's career can be found in his professional autobiography *Papers, Experiences, Perspectives* (Systems Publishing Corporation 1990). Moreover, in March 2001 an article entitled "Alan Pritsker's Multifaceted Career: Theory, Practice, Education, Entrepreneurship, and Service" will appear in a special issue of *IIE Transactions* honoring Alan for his numerous contributions to our profession over the past five decades.

Foremost among Alan's achievements is his work in the theory and methodology of discrete and combined discrete-continuous system simulation. During the early 1970s, Alan and his students formulated the basic principles of combined discrete-continuous simulation and implemented those principles in the GASP IV, SAINT, and SMOOTH simulation languages. Subsequently Alan extended the foundations of combined simulation to encompass the process-interaction approach; and working with several collaborators, he implemented a family of simulation software systems, including SLAM and its extensions—SLAM II, TESS, SLAMSYSTEM, FACTOR/AIM, and Visual SLAM/AweSim. Alan's strategic vision of a family of related simulation software products played a crucial role in the growth and maturing of the field of simulation over the past thirty years.

Alan also made numerous fundamental contributions to the theory and methodology for analysis of stochastic networks and more general large-scale simulation experiments. For this work he received the "H. B. Maynard Innovative Achievement in Industrial Engineering Award" from the American Institute of Industrial Engineers (AIIE, now IIE) in 1978 and the "Outstanding Simulation Publication Award" from The Institute of Management Sciences (TIMS, now INFORMS) College on Simulation and Gaming (now the College on Simulation) in 1985.

Among Alan's diverse contributions to engineering practice, perhaps the most prominent was his development and use of large-scale simulation models to support policy analysis for organ transplantation by the United Network for Organ Sharing. In particular, Alan's work was used to formulate more effective and equitable protocols for assigning liver transplants to waiting patients. This is a remarkable example of the definitive practice of system simulation in addressing ultimate questions of life and death.

Alan's first love was teaching, including not only undergraduate- and graduate-level university courses but also professional short courses. Alan served on the faculties of Arizona State University (1962–69), Virginia Polytechnic Institute and State University (1969–70), and Purdue University (1970–98). From 1970 to 1973, Alan served as Director of the Center for Large-Scale Systems at Purdue University. During the 1970s and 1980s, Alan's activities at Purdue led to what many have called the "Golden Age of Simulation." He received honorary doctorates from Arizona State University (1992) and Purdue University (1998).



Most of Alan's groundbreaking contributions to engineering theory, methodology, and practice are widely available via numerous well-known texts and book chapters that he wrote over the past forty-five years. Perhaps more than any other single individual, Alan effectively disseminated knowledge about simulation technology at all levels of academia, government, and industry through the publication of twelve popular textbooks.

In addition to educating many undergraduate-level students in hundreds of traditional academic courses and industrial short courses on simulation, Alan compiled a superlative record as an adviser of graduate students. Of the eighteen doctoral students and over sixty master's students who completed their graduate work under Alan's supervision, all are highly successful professionals in academia, government, or industry.

Another prominent aspect of Alan's contributions to the growth of the field of simulation was his role in founding and leading several commercial enterprises dedicated to the development and dissemination of simulation technology. He was a cofounder of Pritsker & Associates, Inc. (1973). He also served as the Board Chair of FACTROL, Inc. (1986–89). When Pritsker Corporation was created in 1989 through the merger of Pritsker & Associates and FACTROL, Alan served the new company as Board Chair and CEO (1989–91; 1996–98) and as President and CEO (1991–96). In 1987 Alan received the "Arthur Young–*VENTURE* Magazine Entrepreneur of the Year Award."

Alan's service to the profession spanned a broad range of activities sustained over the past four decades. Perhaps Alan's most prominent contributions in service were made through his leadership of the Winter Simulation Conference (WSC). He served as a member of the WSC Board of Directors representing AIIE from 1970 to 1973. He also served on the WSC Board of Directors representing TIMS–College on Simulation and Gaming from 1981 to 1987; and he served as Board Chair from 1984 to 1985. Alan was an active participant in the technical program of the WSC each year for over thirty years, and in 1989 he delivered the keynote address for that conference.

By his leadership in various professional societies and governmental organizations over the past forty-five years, Alan contributed significantly to the dramatic growth of the field of simulation as well as the larger fields of industrial engineering and operations research. He cofounded the Operations Research Division of AIIE in 1968, and he served as the director of that division from 1968 to 1970. He also cooriginated the AIIE Systems Engineering Conference in 1973. He received the "AIIE Distinguished Research Award" in 1966, and he was elected a Fellow of AIIE in 1978. It is especially noteworthy that in 1991, Alan received from IIE the "Frank and Lillian Gilbreth Industrial Engineering Award," the highest and most esteemed honor presented by that organization.

Alan's service to professional societies was not limited to IIE. From 1973 to 1979, he served the Society for Computer Simulation as the area editor for combined discrete-continuous simulation of the journal *SIMULATION*. For his long-standing, exceptional service to the international simulation community,

(continued on page 8)

(Alan Pritsker Memorium: continued from page 7)

Alan received the "Distinguished Service Award" from the INFORMS-College on Simulation in 1991. Moreover, in 1999 Alan received the "Lifetime Professional Achievement Award" from the INFORMS-College on Simulation, which is the highest honor given by that society.

Elected to the National Academy of Engineering in 1985, Alan enjoyed the distinction of being the second industrial engineer to join that organization. Over the past fifteen years, Alan actively served the National Academy of Engineering in many positions of great responsibility.

We are indeed fortunate to have benefited from Alan Pritsker's multifaceted contributions to our profession over the past five decades. A common theme running through almost all discussions about Alan is the extraordinary effect that he had on every person whose life he touched, however briefly. He will be sorely missed by his family, friends, and colleagues. Alan is survived by his wife, Anne; his children, Pam, Caryl, Ken, and Jeff; and five grandchildren.

For a more detailed description of Pritsker's career and contributions see Wilson, J. R., and D. Goldsman, Alan Pritsker's multifaceted career: Theory, practice, education, and service. IIE Transactions to appear. Available in .pdf format from <ftp://ftp.ncsu.edu/pub/eos/pub/jwilson/ap16.pdf>

Natalie Steiger Receives Recognition for Dissertation

At the Institute of Industrial Engineers (IIE) Annual Conference in May 2000, Natalie Steiger received Second Place for the 2000 IIE Pritsker Doctoral Dissertation Award. Natalie received her Ph.D. degree from the Department of Industrial Engineering at North Carolina State University in May 1999. Her dissertation is entitled "Improved Batching for Confidence Interval Construction in Steady-State Simulation." Natalie is now an assistant professor of production and operations management in the Business School of the University of Maine.

The Simulation Education Homepage

In response to a growing demand for support from educators who teach simulation (both novice and experienced), this website serves as a virtual meeting place where simulation educational resources can be found. With input from leading simulation educators, including many INFORMS members, the site has been structured around the following simulation-focused links: course syllabi, textbooks, software (including how to select), an open-source laboratory manual, job opportunities, organizations, people, academic programs, and "applications-in-the-news". We are continuously seeking input from the simulation community to correct small omissions and on ways to improve the site in general (contact Bill Yurcik, wjyurci@ilstu.edu, Department of Applied Computer Science, Illinois State University). Please take a look - you may like what you see especially if you are slated to teach simulation in the near future! Spread the word and bookmark the url (we know the url is too long).

<http://www.acs.ilstu.edu/faculty/wjyurci/nsfteachsim/indexnew.html>

Report on the Simulation Area of the *INFORMS Journal on Computing*

By Michael Taaffe, Area Editor, October 19, 2000

The Simulation Area of the *INFORMS Journal on Computing* is interested in high-quality research in all computational aspects of simulation and simulation model building. The Area Policy statement and submission instructions are available on the WWW:

<http://joc.pubs.informs.org/>.

The Area Editor is Michael R. Taaffe. The Associate Editor for the Simulation area is Paul Fishwick (University of Florida, fishwick@cise.ufl.edu).

During the third quarter of 2000 (July 1 - September 30, 2000), one paper was accepted, one paper was rejected, two papers are under

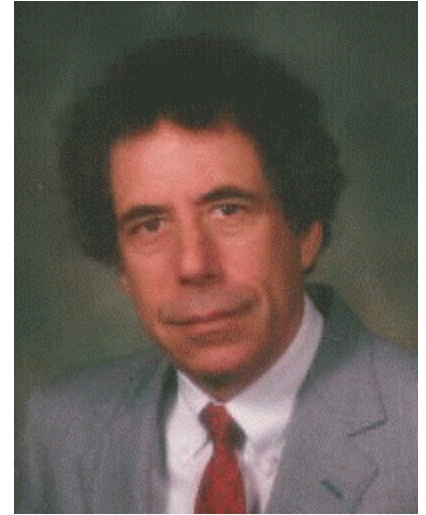
revision by authors, and five papers are waiting for reviews to be completed. There were two new submissions during the quarter, and both are in review.

For more information, please contact

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Jerry Banks Receives 1999 INFORMS College on Simulation Distinguished Service Award

Dr. Jerry Banks, Senior Simulation Technology Advisor at AutoSimulations, Inc., and who retired in 1999 from his position as Professor in Georgia Tech's School of Industrial and Systems Engineering, was presented the 1999 Distinguished Service Award of the INFORMS College on Simulation during the College's business meeting at the 1999 Winter Simulation Conference in Phoenix. The award, first given in 1986, recognizes each year at most one individual who has "... provided long-standing, exceptional service to the simulation community ... sustained over a period of 15 to 20 years or longer and [has been] acquitted with distinction." The selection committee was chaired by Bruce Schmeiser (Purdue University) serving in his second year on the Committee, with the other members' being Thomas J. Schriber (The University of Michigan) serving his third and final year, and W. David Kelton (University of Cincinnati) serving his first year.



Dating back to as early as 1965 when he began his faculty career in Georgia Tech, Dr. Banks has been (quoting from the nomination letter) "... an avid spokesperson for simulation -- an ambassador for our industry," and has consistently "... been a vocal advocate both nationally and internationally" for simulation. In addition to the professional-service activities recounted in part below, he has lectured over an extensive geographic area on behalf of the power and appropriate use of simulation, including numerous trips to Japan, Mexico, Canada, France, Belgium, Germany, Austria, Italy, Puerto Rico, Chile, Brazil, Singapore, China, and Turkey.

Jerry's work on behalf of the Winter Simulation Conference, in many different roles, is second to none. He served as Arrangements Chair in 1981, Associate General Chair in 1982, General Chair in 1983, and as the Institute of Industrial Engineers (IIE) Representative to the WSC Board of Directors over a nine-year period from 1984 through 1992 during which time he was Board Liaison in 1987, Board Vice Chair for 1987-1989, and Board Chair for 1989-1991. It was during these years that the WSC developed into the major success (and major effort) to which we have been accustomed, and Jerry's steady hand in guiding the conference played a critical role in moving it into its current position of being the preeminent simulation conference in the world. As General Chair for WSC'83 he instituted many changes that are now recognized as marking that year's conference as a major turning point.

In addition to his conference-organization service for the WSC, Jerry has also played key roles in the national conferences of the Operations Research Society of America (ORSA, one of the forerunners of INFORMS) in which simulation played a major role, including being General Chair of the Fall National Meeting in 1977 in Atlanta. Jerry also served ORSA by being on the Student Affairs, Education, and Social Sciences Applications Committees. He was an ORSA visiting lecturer from 1969 to 1977, and has been a member of ORSA and INFORMS since 1965.

Outside INFORMS, Dr. Banks has also served in many roles in other professional societies, usually championing simulation, including IIE, the Society for Computer Simulation (SCS), the Society of Manufacturing Engineers (SME), and the American Society for Quality Control (ASQC). Most recently, Jerry's regular "Simulation" editorial columns in *IIE Solutions* have become a mainstay of that publication, and have attracted considerable attention due to their insight and thought-provoking nature.

Less widely known, though still important if only in a behind-the-scenes setting, are Jerry's extensive activities in refereeing papers for journals, as well as having served as an Associate Editor for *IIE Transactions*. And internally at Georgia Tech, Jerry worked hard on simulation curriculum development and student advising, leading to Tech's becoming the international leader for simulation research and education that we know today.

So it is with great pleasure (and thanks) that the INFORMS College on Simulation presents its 1999 Distinguished Service Award to Dr. Jerry Banks. Our community is indeed fortunate to have such a tireless champion of our profession working for us for these many years. He can be reached at jerry_banks@autosim.com.

For the Call for Nominations for the 2000 Award, please visit <http://www.informs-cs.org/dsaward.html>. A listing of past winners of the Award may be found at <http://www.informs-cs.org/dsawin.html>.

Job Placement – Job Search Resources for Simulationists

Job opportunities for simulation professionals are posted on the SNET web page: <http://or.stanford.edu/~simlib/jobs.html>, and regularly in the electronic SNET Digest. To subscribe to the Digest, send e-mail to snet@or.stanford.edu. European members may want to visit the *SCS International* web site: <http://hobbes.rug.ac.be/~scs>. In addition, *INFORMS* members should be aware of the extensive job placement resources that *INFORMS* offers – more than 90 companies and 400 applicants used these resources last year. See:

<http://www.informs.org/employment.html>

Report on the Simulation Area for *Operations Research*

By Michael Fu (aided by David Kelton), Area Editor, October 4, 2000

The Simulation Area of *Operations Research* seeks papers that make a lasting contribution to the theory and practice of stochastic simulation on digital computers. Detailed submission information can be found on the *Operations Research* journal web page:

<http://grace.wharton.upenn.edu/~harker/opsresearch.html>

Michael Fu took over from David Kelton as Simulation Area Editor on January 1, 2000, and receives all new submissions. From March 1 through September 30, 2000, four new submissions were received, two of which were rejected and two are still under review. There are several other papers that were being handled by Michael Fu. Of those, one was accepted, three were rejected, and one other is still outstanding (very late). Although he is receiving no new submissions, David Kelton continues to handle articles that were submitted while he was Simulation Area Editor. Of the papers that did not transfer to Michael Fu, since September 30, 1999, four have

been accepted, two have been rejected, one has been withdrawn, and two are now with the authors for revision.

Associate Editors for the Area are Sigrun Andradottir (Georgia Tech, currently on sabbatical at Princeton University), Peter Haas (IBM Research), Jian-Qiang Hu (Boston University), and Susan Sanchez (University of Missouri-St.Louis, visiting this year at the Naval Postgraduate School).

Michael C. Fu, Area Editor, *Operations Research*
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Report on the Stochastic Models and Simulation Department for *Management Science*

By Paul Glasserman, Departmental Editor, October 10, 2000

The Stochastic Models and Simulation Department of *Management Science* seeks high-quality papers dealing with all aspects of stochastic models and simulation relevant to the practice or theory of management science. The department is particularly interested in papers dealing with new areas of application. Authors must adhere to the submission guidelines given in the journal, especially regarding the formatting and length of the papers.

From the time of our last report for this newsletter (April 26, 2000) to date, we have received a total of 7 new submissions, of which 6 are still under review and one has been rejected.

The Associate Editors for the Department are: Thanos Avramidis (Cornell University), Jim Dai (Georgia Tech), Michael Fu (University of Maryland), Tava Lennon Olsen (University of

Michigan), Perwez Shahabuddin (Columbia University), Jan Van Miegham (Northwestern University), and Stefanos Zenios (Stanford University)

Marion Hedger, for

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email: pg20@columbia.edu

CALL FOR PAPERS: Hawaii and Miami

The College will be sponsoring several sessions at two upcoming INFORMS meetings. Please contact INFORM-CS Vice President Susan Sanchez (Naval Postgraduate School, ssanchez@nps.navy.mil) if you are interested in organizing a session and/or giving a talk in a sponsored session. The INFORMS International Hawaii Conference will be held in Maui, Hawaii June 17-20, 2001. This will be a most attractive venue and time: we hope that the College can contribute to the meeting's success. Contact Susan by November 23, 2000 if you're able to participate in this meeting. Those interested in organizing sessions and/or giving talks at the November 2001 INFORMS Miami meeting should contact her by February 1, 2001. For more information on these conferences, please visit the INFORMS WWW site for conferences,

<http://www.informs.org/Conf/>



WSC '01 December 9-12, 2001

The 2001 Winter Simulation Conference will travel to Arlington, Virginia. The conference will be held at the Crystal Gateway Marriott, December 9 through 12. The sunny views and shady palms at this destination resort are ideal for a gathering of hundreds of simulation experts, practitioners, and researchers. We will offer the full-featured WSC conference that you are accustomed to, including more than thirteen concurrent tracks and over 150 state-of-the-art presentations. Perusing the exhibits of top companies in the simulation industry is always a great opportunity to catch up on the latest innovations. The conference schedule is structured to blend formal presentation with ample opportunity to visit the exhibit area, plus evening events to gather everyone in an informal setting. Please join us. For more information about WSC 2001, contact:

General Chair:

Matt Rohrer
AutoSimulations, Inc.
matr@autosim.com
(801) 294-1320

Program Chair:

Deb Medeiros
Penn State University
djm3@psu.edu
(814) 863-2364

Meeting Manager:

David Haberstroh Talley Management
Group, Inc.
dhaberstroh@talley.com
(856) 423-7222

Fourth St. Petersburg Workshop on Simulation: June 18-23, 2001

The Department of Stochastic Simulation of St. Petersburg State University is sponsoring its fourth workshop, in cooperation with the INFORMS College on Simulation (USA). This international conference devoted to mathematical techniques in stochastic simulation, experimental designs and related topics. The workshop is open to all researchers who would like to present their results, as well as to practitioners with experience or an interest in the application of sophisticated mathematical techniques to simulation. It is also open participants that wish to attend without presenting a paper.

The first Workshop took place in May 1994, the second Workshop in June 1996, and the third in June 1998. The selected advance proceedings of the second Workshop was published as a special issue of the Journal of Statistical Planning and Inference (vol. 85, No. 1/2, March 2000). A similar volume for the third Workshop is to be published as a book by Birkhauser in July 2000.

The fourth Workshop will take place in a hotel near the historical center of St. Petersburg. A proceedings volume will be available at the opening session. The end of June is the time of famous white nights and wonderful weather in St. Petersburg. Participants will be able to visit the remarkable museums and theaters of the city.



Organizing Committee:

Viatcheslav B. Melas (Russia), Co-Chair
N. Balakrishnan (Canada), Co-Chair
William E. Biles (USA), Co-Chair
Russell R. Barton (USA)
Yuri Kashtanov (Russia)
Barry L. Nelson (USA)
Weng Kee Wong (USA)

Workshop Topics:

Stochastic simulation techniques
Experimental design
Bayesian statistics
Simulation in physics, chemistry and mechanics
Simulation in medicine and biology
Extremes of random processes
Statistical methods in simulation
Queueing and other discrete systems
Software

Program Committee:

N. Balakrishnan (Canada)	Sergei M. Ermakov (Russia), Chair	Jack Kleijnen (The Netherlands)	Jordi Ocana (Spain)
Russell R. Barton (USA)	Valery V. Fedorov (USA)	Patrick Laycock (UK)	Fridrich Pukelsheim (Germany)
Emiel van Berkum (The Netherlands)	Nancy Flournoy (USA)	Viatcheslav B. Melas (Russia)	Dieter Rasch (The Netherlands)
Jose M. Bernardo (Spain)	Peter Glynn (USA)	Yuri Merkuryev (Latvia)	Rainer Schwabe (Germany)
William E. Biles (USA)	Vladimir Kalashnikov (Russia)	Gennady A. Mikhailov (Russia)	Douglas Wiens (Canada)
Russell Cheng (UK)	Yuri Kashtanov (Russia)	Barry L. Nelson (USA)	Weng K. Wong (USA)
David Kelton (USA)	Valery B. Nevzorov (Russia)		

Call for papers: Original papers on Workshop topics are solicited. Authors should submit electronic versions of papers from January 1 until January 31, 2001 to Prof. V. Melas using e-mail: v.melas@pobox.spbu.ru, or to any of the organizing committee members. The submission should be in standard LaTeX using the standard one-column article style at 10pt character size with the page size 12.5cm x 19.5cm. The maximum length is 6 pages. All papers will be refereed. Detailed requirements will be posted at: <http://vega.math.spbu.ru>. The registration fee is expected to be about \$200 (US). The registration form as well as financial and accommodations details will be posted to the web site later this year.

Event Calendar

By [Shane Henderson](#), Associate Newsletter Editor, October 9, 2000

Winter Simulation Conference, Orlando, Florida, December 10-13, 2000. Contact: David Haberstroh, Talley Management Group, Tel: (856) 423-7222 x217. Email: dhaberstroh@talley.com. WWW: <http://www.wintersim.org/>

Western Multiconference, Phoenix, Arizona, January 7-11, 2001. Contact: Dr. Hamid Vakilzadian. Email: hvakilzadian@unl.edu. WWW: <http://www.scs.org/confernc/wmc01/wmc2001cfp.html>

International Conference on Health Sciences Simulation, Phoenix, Arizona, January 8-11, 2001. Contact James G. Anderson (765) 494-4703. Email: andersonj@sri.soc.purdue.edu. WWW: <http://www.sla.purdue.edu/academic/soc/andersonj/call.html>

MIC 2001: Twentieth IASTED International Conference on Modelling, Identification and Control, Innsbruck, Austria, February 19-22, 2001. WWW: <http://www.iasted.com/conferences/2001/austria/mic.htm>

Simulation Solutions 2001, Denver, Colorado, March 19-21, 2001. Contact: (770) 449-0460. WWW: <http://www.simsol.org>

Spring Simulation Interoperability Workshop, Orlando, Florida, March 25 - 30, 2001. WWW: <http://www.sisostds.org/>

Agent-Based Simulation, Workshop, Passau, Germany, April 2-4, 2001. Contact: Rainer Rimane. Email: rimane@cs.fau.de. WWW: <http://www.or.uni-passau.de/workshop2001/>

34th Annual Simulation Symposium, Seattle, Washington, April 22-26, 2001. Contact: Prof. Mohsen Guizani (mguizani@cs.uwf.edu) or Prof. Helen Karatza (karatza@csd.auth.gr). WWW: <http://agent.csd.auth.gr/ANSS34>

2001 Advanced Simulation Technology Conference, Seattle, Washington, April 22-26, 2001. Contact: Dr. Adrian Tentner. Email: tentner@anl.gov. WWW: <http://www.scs.org/confernc/astc01/cfp/astc2001cfp.html>

MOSIM'01: 3e Conférence Francophone de MODélisation et SIMulation, Université de Technologie de Troyes, France, April 25-27, 2001. Contact: 33 (0) 3 25 71 58 86. Email: mosim01@univ-troyes.fr. WWW: <http://www.univ-troyes.fr/mosim01/>

Canadian Operational Research Society and Optimization Days Joint Conference, Quebec City, Canada, May 6-9, 2001. Contact Bernard Lamond 418-656-2131x5472, email: Bernard.Lamond@fsa.ulaval.ca. WWW: <http://www.fsa.ulaval.ca/scro-jopt>

15th Workshop on Parallel and Distributed Simulation, Lake Arrowhead, California, May 15-18, 2001. Contact Rajive Bagrodia 310 825-0956. Email: rajive@cs.ucla.edu. WWW: <http://www.eecs.uc.edu/~paw/pads2001>

10th Annual Industrial Engineering Research Conference (IERC), Dallas Texas. May 20-23, 2001. Contact Jay Rajgopal (rajgopal@engrng.pitt.edu) or Kim Needy (kneedy@engrng.pitt.edu). WWW: <http://ie.pitt.edu/ierc2001/>

INFORMS Conference on Practice, San Diego, CA, May 21-22, 2001. WWW: <http://www.informs.org/Conf/Practice2001/>

SimTecT 2001, Canberra, Australia, May 28-31 2001. Contact: Tony Landers. Email: tony.landiers@tenix.com. WWW: <http://www.siaa.asn.au/simtect/2001/2001.htm>

SIGMETRICS 2001: Cambridge, Massachusetts, June 17-20, 2001. WWW: <http://www.cs.umd.edu/conference/sigmetrics2001/>

Fourth St. Petersburg Workshop on Simulation, St. Petersburg, Russia, June 18-23, 2001. Contact: Prof. Viatcheslav B. Melas. Email: v.melas@pobox.spbu.ru. WWW: <http://vega.math.spbu.ru/workshop/2001/>

European Simulation Interoperability Workshop, Harrow, Middlesex, UK, June 25 - 27, 2001. Contact: Mick Ryan. Email: Mick.Ryan@classic.msn.com. WWW: <http://www.sisostds.org/siw/01Euro/index.htm>

EUROSIM 2001 4th International EUROSIM Congress, Delft, The Netherlands, June 26-29, 2001. Contact: Mrs. T. Tijanova, Delft University of Technology, Faculty of Information Technology and Systems, P.O. Box 5031, NL-2600 GA Delft. Fax: +31-15-2787209, Email: eurosim2001@pa.twi.tudelft.nl, WWW: <http://ta.twi.tudelft.nl/PA/Eurosim2001/>

EURO 2001: The XVIII-th Euro Conference on Operations Research, Erasmus University Rotterdam, The Netherlands, July 9-11, 2001. Contact info@euro2001.org. WWW: <http://www.euro2001.org>

SIAM Annual Meeting, San Diego, California, July 11-14, 2001. Organizers: Margaret Cheney, James M. Hyman. WWW: <http://www.siam.org/meetings/an01/>

International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS '01), Orlando, Florida, July 15-19, 2001. Contact Heidi Schmidt, Society for Computer Simulation International, 4838 Ronson Court, Suite L, San Diego, CA 92111, USA, Tel 858-277-3888, Fax 858-277-3930, E-mail: hschmidt@scs.org. WWW: <http://www.scs.org/confernc/spects01/spects01cfp.html>

11th INFORMS Applied Probability Society Conference, New York City, July 25-27, 2001. Contact Karl Sigman sigman@ieor.columbia.edu. WWW: <http://www.conference.com/informsApplied/>

International Conference on Industrial Engineering and Production Management, Quebec City, Canada, August 20-23, 2001. Contact Alain Martel, (418) 656-5042. Email: Alain.Martel@fsa.ulaval.ca. WWW: <http://www.iepm.net/>

MCM2001: 3rd IMACS Seminar on Monte Carlo Methods, Salzburg University, Salzburg, Austria, September 10-14, 2001. Contact: MCM2001, Department of Mathematics, University of Salzburg, Hellbrunnerstr. 34, A-5020 Salzburg. Email: mcm2001@cosy.sbg.ac.at. WWW: <http://mcm2001.sbg.ac.at/>

INFORMS 2001, Miami, Florida, November 3-7, 2001. WWW: <http://128.227.36.67/Informs2001/>

IFORS 16-th Triennial Conference, Edinburgh, UK, July 8-12, 2002. Contact Ben L:ev. Email: blev@umich.edu. WWW: <http://www.ifors.org/conferences/ifors02>

President's Message *(continued from page 1)*

work is aided and displayed by Web Editor Felisa Vasquez-Abad, Consulting Web Editor Jim Wilson, and Peter Welch.

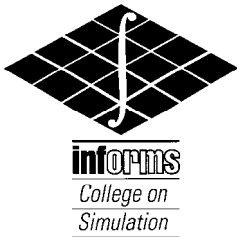
Finally, I would like to note that the Simulation Archives project, led by Jim Wilson and Dave Goldsman is alive and well. We have a growing collection of materials at NC State. If you have any materials to donate to the collection, please let Jim or Dave know.

The INFORMS College on Simulation has a long history of involvement by its members. Be sure to become even more involved in our group's activities this year. See you in Orlando!

John Charnes, INFORMS-CS President

INFORMS College on Simulation E-mail Directory

The e-mail list of INFORMS College on Simulation members is available at: <http://www-personal.umich.edu/~shaneioe/cos/email.htm>. The list is created automatically by periodically querying the *INFORMS* registration database. That list is also used for the electronic distribution of the *Newsletter*. You can insure that your entry is up-to-date by visiting the INFORMS page for updating your address at: <http://www.informs.org/Dir/coa.html>. If you have questions or difficulties, please contact Shane Henderson (shaneioe@engin.umich.edu).



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