

Minutes

Business Meeting of the INFORMS Computing Society

Denver, October 25, 2004

Attendance

The following ICS members signed the attendance sheet: John Chinneck, David Kelton, Manuel Laguna, Mohit Tawarmalani, Ted Ralphs, Jeff Linderoth, Nick Sahinidis, Shabbir Ahmed, Yongpei Guan, Dieter Vanderbussche, Lou Hafer, Tom Dehne, Joe Creegan, Jan Karel Lenstra, Mary Fenelo, Gordon Bradley, Arne Drud, Leon Lasdon, Siggi Olafsson, Cesar Rego, Andrew Kusiak, Kweku-Muata Osei-Bryon, Leyuan Shi, Abhijit Gosavi, Janos Pinter, Zsot Ugray, Brain Borchers, Fred Murphy, Bruce Golden, David Gay, Dick Barr, Terry Harrison, Camille Price, Jun Ma, Kipp Martin, Bob Fourer, Jose-Luis Gonzalez-Verlarde, David Heltne, Cipriano Santos, Brady Hunsaker, Mihai Bancin, Alia Stanciu, Harlan Crowder, Jeff Arthur, Lloyd Clarke, Ariela Sofer, Robin Lougee-Heimer, Karla Hoffman, Fred Glover, David Woodruff.

Opening

The meeting was opened by Chair Ariela Sofer.

Announcements

Dave Woodruff asks for volunteers to serve on Subdivision Council, and encouraged attendees and students to join ICS. Current ICS has 343 Members.

Current Officers

Chair: Ariela Sofer

Vice-Chair/Chair-elect: John Chinneck

Secretary/Treasurer: Robin Lougee-Heimer

Acting Newsletter editor: David Woodruff

Board of Directors:

Arne Drud (-2006)

Alexander Martin (-2006)

Karen Aardal (-2005)

Robin Lougee-Heimer (-2005)

Brian Borchers (-2004)

Bob Fourer (-2004)

Each board member serves for 3 years. Brian Borchers and Bob Fourer and will be completing their service in November. The membership expressed their gratitude to Brian and Bob with a round of applause.

Elections

Email elections will be held soon for the positions that are vacated as of this meeting. Candidates are as follows:

Board of Directors:

Lou Hafer

Nick Sahinidis

No further nominations from the floor. Moved to close nominations (Brian Borchers; John Chinneck). Carried.

ICS Prize

The 2004 INFORMS Computing Society Prize for research excellence in the interface between operations research and computer science was awarded to Nick Sahinidis and Mohit Towarmalani for their many contributions to nonlinear global optimization, the book *Convexification and Global Optimization in Continuous and Mixed-Integer Nonlinear Programming: Theory, Algorithms, Software, and Applications*, and the work embodied in the BARON software package. The prize committee members were Jonathan Eckstein (Chair) David Gay, Lou Hafer, Terry Harrison, and John Hooker. Citation appended below. .

Approval of Minutes of October 2003 Meeting

It was **moved** (Bruce Golden; Brian Borchers) that the minutes of the October 2003 meeting be approved. Carried.

ICS Conference 2005

Bruce Golden gave a brief outline of the plans for the 2005 ICS Conference. Number of papers submitted is 195, with 80% of the papers being submitted in the final week. There will be 6 parallel sessions over 2.5 days. The ICS conference will be held January 5-7, 2005 at the Loews Annapolis Hotel. Main organizers are Bruce Golden, Raghu Raghavan and Ed Wasil.

INFORMS New Orleans 2005

Sponsored session information and important deadlines were announced for the INFORMS 2005 Meeting, November 13-16 in New Orleans by Dushiyant. Esma Gel is the Sponsored Sessions Chair.

John Chinneck is organizing the ICS sponsored sessions for New Orleans, and promises to contact ICS members shortly.

Scheduling ICS Sessions at INFORMS Meetings

Ariela Sofer presented concerns from INFORMS on scheduling issues due to the successful growth of the national meetings and requested member's preferences. Brian Borchers suggested rewarding those who submit earlier and feed/beer at poster sessions. Bob Fourer suggested an event at the end of the conference be held to reward those who stay. Ted Ralphs voiced his preference for starting on Saturday.

INFORMS Journal on Computing Report

David Kelton presented the ICS Journal on Computing report was presented.

Fred Murphy requests that members make sure their library subscribe to the ICS Journal on Computing. (Fred Murphy). **Suggests that officers send out an email with this request.**

Secretary/Treasurer's Report

Robin Lougee-Heimer presented the Secretary/Treasurer's report. The most recent financial statements are for Sept 31, 2004; a summary is attached as an appendix

Manuel Laguna gives check for \$11.05 to cover the \$11.04 that the ICS Cancun meeting lost. It is now correct to say that the ICS meetings have never lost money.

Amendment to ICS Bylaw

Ariela Sofer announced that an amendment to the by-laws is needed to cover the need for a run off at the "spring meeting" when there is no Spring Meeting. A proposed amendment will be sent out by email., and will be voted on at the business meeting in Annapolis.

Coin-OR Foundation

Robin Lougee-Heimer announced the formation of the education, nonprofit corporation "COIN-OR Foundation, Inc." and the move of the open-source resources of the COIN-OR initiative to the active management of the new Foundation on the INFORMS servers.

New Business

Ariela Sofer asked for volunteers to organize the 2007 ICS conference.

Closing

It was **moved** (Ariela Sofer, Robin Lougee-Heimer) that the meeting be adjourned.. Carried.



*Institute for Operations Research
and the Management Sciences*

Computing Society

Awards the 2004 ICS Prize

for

Research Excellence in the Interface

Between Operations Research and Computer Science

to

Nikolaos V. Sahinidis and Mohit Tawarmalani

for their contributions to the field of Nonlinear global optimization summarized in their book *Convexification and Global Optimization in Continuous and Mixed-Integer Nonlinear Programming*, and embodied in the BARON software package

The work embodied in this book and the BARON software package comprises a path-breaking advance in the theory and computational practice of optimizing nonconvex nonlinear models. Mathematical programming methods have traditionally only been able to compute local optima of such models, and practitioners seeking global optima had to resort to a variety of heuristic and *ad hoc* techniques. This work, drawing on original contributions of the authors and the work of many other researchers, addresses the computation of provably global optima by bringing together a variety of mathematical programming techniques ranging from branch and bound to convex analysis. It thus unites a number of traditionally separate research areas in creating an enabling technology for new application fields. The book also includes interesting engineering applications, with computational results giving persuasive proof of the work's usefulness. Given the challenging nature of the models it addresses, the success of BARON is remarkable. Work of this nature opens up new applications for the future of mathematical programming.

Ariela Sofer

Chair, INFORMS Computing Society Chair

Jonathan Eckstein

ICS Prize Committee Chair

Committee Members:

David Gay, Lou Hafer,
John Hooker, and Terry Harrison

INFORMS Computing Society

Financial Statement as of September, 2004

Summary	<i>Sept 2004</i>	<i>Audited 2003</i>	<i>Mar 31, 2003</i>	<i>Audited 2002</i>	<i>Audited 2001</i>	<i>Audited 2000</i>
REVENUES		\$2,035.61	\$6,539.49	\$2,349.93	\$2,400.42	\$3,229.52
dues (individuals)	1,895.00	1,994.00	1,757.00	\$2,275.00	\$2,119.00	\$2,619.00
dues/contributions (corporate)						
meetings receipts			4,782.49			-\$11.04
Interest		41.61			\$281.42	\$621.56
Other				\$74.93		
EXPENSES	\$115.93	\$7,196.67	\$69.62	\$2925.45	\$5,618.88	\$5,043.37
newsletter - HQ labor			19.25	174.98	\$44.50	\$73.50
newsletter - production						
newsletter - printing				617.82	\$3,090.65	\$1,287.99
newsletter - postage/mailing					\$1,072.48	\$723.31
Balloting		19.25			\$8.65	\$57.25
national meeting (receptions)		704.32	coming	597.19	\$402.60	\$1,142.15
Award		1,015.23	coming	1033.73	\$1,000.00	\$1,000.00
supplies/copying/postage	105.93	59.37	50.37	1.73		\$259.17
contributions to journals		5,360	coming	500.00		\$500.00
		proceedings				
Auditing correction	10	38.50			+\$434.00	
	HQ labor	HQ labor				
Ending Balance	tbd	Tbd	\$15,160.45	\$8,690.58	\$9,266.10	\$12,050.56

Report on *INFORMS Journal on Computing*

David Kelton, Editor-in-Chief

Oct. 25, 2004, ICS business meeting

Denver INFORMS conference

- Publication of Volume 16 (2004)
 - All four issues on time
 - 39 papers, 504 pages, up from 22 papers and 444 pages last year
 - Due to increased submission rate and backlog, granted an increase in page budget from 448 to 512 for 2004
 - Same request has been granted for 2005
 - 4th issue: *Special Issue on Computational Molecular Biology/Bioinformatics*, Guest-Editor Harvey Greenberg

- Flow of papers over last 12-month period
 - Excluding special issues/clusters, 135 new submissions (up from 128 in prior 12 months), finished processing on 109 papers (up from 103), 24% accepted (down from 35%)
 - Including special issues/clusters, 170 new submissions
 - Backlog stands at 53 papers (after 4th 2004 issue), up from 36 this time last year
- Special issues, special papers
 - First paper in 3rd issue this year, state-of-the-art survey, *Opportunities for Combinatorial Optimization in Computational Biology* by Harvey Greenberg, William Hart, Giuseppe Lancia
 - *Special Issue on Computational Molecular Biology/Bioinformatics*, (Harvey Greenberg), published as 4th issue of this year
 - *Special Issue on OR in Electrical and Computer Engineering* (John Chinneck), several papers complete
 - *Special Cluster of papers on Computation in Music* (Elaine Chew), almost all papers almost complete
 - One Feature Articles (Ed Wasil), almost complete
- Website
 - Still very plain, but is functioning well
 - 25 Online Supplements (up from 12 last year)
 - Project for online subject/keyword index for entire history of journal (about half done now ... got an internal university grant for help) ... implementation pending decision about open access for back issues
 - Still no need for online submission forms, reviewing, tracking

- Areas and Personnel
 - Area lineup is the same
 - Had joint Telecom/EC Area with Area Co-Editors Prakash Mirchandani and Ramayya Krishnan
 - Krishnan stepped down, so Prakash will handle EC as well
 - Two Associate Editors stepped down
 - Rita Vachani, Hans Blanc
 - Five new Associate Editors appointed
 - Raghu Raghavan, Nicola Secomandi, Leyuan Shi, Arne Lokketangen, Edmund Burke
 - I agreed to stay an extra 7th year, through 2006
- Production
 - Process, page style remained essentially the same, both working well
 - Emily Sullivan replaced Steve Siegforth at INFORMS as *JOC* Production Editor
- Finances
 - Close of 2003: revenue = \$110K (down from \$120K last year), expenses = \$73K (same as last year)
 - The \$73K expenses include \$8K overhead to INFORMS
 - Institutional Sponsorship at \$3000, down from \$2500
 - 2004 through June: revenue = \$68K, expenses = \$43K

- Circulation
 - Total = 1,564 (down from 1,755 last year)
 - 96% of the drop is in IPOL suite subscriptions for all INFORMS journals (731, down from 952 last year)
 - 770 JOC-only (union of print, online) (down from 803)
 - The 770 includes 268 libraries, down from 273 last year
 - One bright spot – INFORMS-members’ “dues” journal, now 224 (up from 191 last year, and at an all-time high)
- Citations (grain of salt, please)
 - ISI Impact Factor = 0.761 for 2003 (down from 0.979 in 2002)
 - Was 0.729 in 2001, estimated 0.308 in 2000, not indexed earlier
 - 11th of 57 “OR & MS” journals that ISI indexed in 2003
 - 7th of 54 in 2002, 8th of 53 in 2001, 24th of 50 in 2000
 - 3rd among 11 INFORMS journals (*MS* = 2, *MOR* = 7)
- Plans
 - Monitor submission, throughput rates, page budget
 - INFORMS VP/Pubs Fred Murphy: maybe *JOC* could become semi-monthly rather than quarterly ... wait and see

- LaTeX, BiBTeX support coming from INFORMS
- Work off some of backlog with higher page budget