
INFORMS HEALTH NEWSLETTER

informatics *Institute for Operations Research
and the Management Sciences*

Spring 2007

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Officers of the INFORMS *Health Applications Section*

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Officers of the INFORMS *Health Applications Section* (continued)

Committee Chairs:

Bonder Prize Committee:

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Notes from the Annual Business Meeting: Pittsburgh, 2006

Approximately 75 people attended meeting in Pittsburgh

There were proposed revisions to the Bonder Scholarship requirements. Eric will have the notes for the Bonder scholarship and the amended requirements

There are informal changes for the Pierskalla Award

Al Holder has the updated officer list on the HAS website

Bonder Scholarship:

The fourth annual Bonder Scholarship was presented to Elisa Frances Long of Stanford University for her project, "The interaction of AIDS and TB in populations in developing nations."

Pierskalla Award:

The winners of the fifth Pierskalla competition were Eva Lee, Siddhartha Maheshwary, and Jacquelyn Mason for their paper, "Emergency Treatment Response and Real-Time Staff Allocation for Bioterrorism and Infectious Disease Outbreak."

Election Results:

The results of the election for section officers were announced. Congratulations to:

Julie Ivy, President
Jay Rosenberger, Vice President
Brian Denton, Secretary
Art Chaovalitwongse, Treasurer

Door Prize Winners

Renata Kopach and Jim Benneyan

Incoming President's Message

Hi everybody!

I sincerely apologize for the lateness of the 2006 newsletter but I hope it was worth the wait.

Prior to writing the incoming president's message, I went back and reviewed what my distinguished predecessors had written and what was the general state of the Health Application Section. Well, we're really on the right track. Last year has been another wonderful year for the section with lots of news to report.

First, back in February 2006, Al Holder and the Optimization Society organized their first conference in San Antonio. The general theme of the meeting was how optimization can aid health care, medicine, and biological research. Not surprisingly, it was a great success. After all, with the combination of AI at the helm and San Antonio as the location, how could the meeting be anything but triumphant?!?

Second, if you're looking for yet another addition to your bookshelf, in late 2005, the National Academies Press published *Building a Better Delivery System: A New Engineering/Health Care Partnership*. This is a great and timely reference for the challenges currently facing the American health care system and how the tools of management science and folks like us can contribute. Of course, Yasar Ozcan's book, *Quantitative Methods in Health Care Management*, is in its umpteenth reprinting, too.

Third, I had the fortunate opportunity (along with many other Health Applications Section members, including Jim Benneyan, Mike Carter, Shane Henderson, Julie Ivy, Eva Lee, François Sainfort, Andrew Schaefer, and Amy Wilson, to drop but a few names) to be invited to and present at the Health Care Systems Engineering Workshop sponsored by the National Science Foundation Directorate of Engineering, the National Institute of Biomedical Imaging and Bioengineering, and the Regenstrief Center for Healthcare Engineering. Ron Rardin was the organizer and he published a white paper associated with the meeting this spring. Incidentally, Jim Benneyan and I continue to explore ways that the HAS and Society for Healthcare Systems can work more together at this fall's meeting in Seattle. Any input for this endeavor would be greatly appreciated (please e-mail either Jim at benneyan@coe.neu.edu or me at murray.cote@uchsc.edu at your earliest convenience).

Fourth, a big round of thanks goes to Julie Ivy (our current vice chair and incoming chair) for pulling together a fantastic slate of presentations for the meeting in Pittsburgh. At final count, we had 17 HAS-sponsored sessions at the meeting, including 3 co-sponsored with Quality, Statistics, and Reliability (QSR), and 1 co-sponsored with Data Envelopment Analysis (DEA). Ron Rardin chaired the invited cluster on healthcare which was also co-sponsored by the HAS, and he had 12 sessions. Then, in the healthcare systems contributed track, there were an additional 7 sessions. So, if you were looking for presentations running the gamut of operations, policy, and medical or clinical applications of health care management science, last year's meeting in Pittsburgh is indeed the place to be. In short, our expected turnout was absolutely amazing! I have never seen such interest in health care before at any other INFORMS meeting in the past. Echoing the theme of the Pittsburgh meeting, it's a health care renaissance.

As Al wrote back in 2005, the visibility of our section is continues to grow in leaps and bounds. In 2006, following Bill Pierskalla and Seth Bonder from the Denver meeting, Margaret Brandeau will be gave one of the plenary sessions in Pittsburgh. Then, we had 13 applications for the Pierskalla Award, which is a new record for us. Eva Lee, the 2005 winner of the Pierskalla Award, chaired that award committee and we are very grateful for the arduous task she had placed in front her as we know from previous years that all of the submissions will be excellent and deciding upon the 2006 winner will be challenging. Similarly, we received 18 applications for the Bonder Scholarship. According to Eric Wolman, the chair for the Bonder Scholarship, this was another record for this award, and the candidates keep getting better and better every year, too.

Fifth, the fecundity of the HAS executive continues. In 2006, both Amy Wilson and Julie Ivy gave birth to bouncing baby boys. Congratulations to both of them! Amy and Julie join the illustrious list of former HAS executives-come-parents including Liam O'Neill, John Blake, and Al Holder. Naturally, as academics, we know that we need to investigate (and perhaps report the results in a paper for *Health Care Management Science*) this interesting relationship between serving in the HAS executive and becoming a parent.

Last, and not least, I want to reiterate my sincere gratitude to this year's executive officers. In particular, to Julie Ivy for chairing the upcoming Health Applications Section sponsored sessions in Pittsburgh. To Andrew Schaefer for his infinite patience in serving as our secretary/newsletter editor. To Art Chaovalitwongse for being our treasurer (if you want to get involved with the HAS, this is a great position to start with and the math is pretty easy, too). And, to Eric Wolman, Eva Lee, and Mike Carter for chairing the Bonder Scholarship, Pierskalla Award, and Nominating Committee, respectively. If they've asked you participate, please do so. If you have already participated, my thanks, too!

In closing, although I've said it before, both in person and via e-mail, I am extremely grateful for my colleagues in the HAS. In particular, John Blake, Mike Carter, Al Holder, Liam O'Niell, Sandy Potthoff, and Amy Wilson have been wonderful resources to turn to whenever I was stuck and needed a second (or third or fourth) opinion. Like Al, I have John Blake to thank (or blame) for getting me involved in the HAS. But, I got it doubly, as Al also encouraged my increased involvement in the HAS. I have served as secretary/newsletter editor twice, served as a referee for the Pierskalla Award, and at the end of this year, I complete my term as Chair of the HAS. It has been a great experience and I encourage all of our HAS members to volunteer and serve the HAS. Who knows? You may even become a parent, too!

Best regards,

-Murray

The Bonder Scholarship for Research in Health Services

The *Health Applications Section* of INFORMS invites applications from qualified doctoral candidates for the **Bonder Scholarship for Research in Health Services**. Doctoral candidates, particularly those at the beginning of their programs, with an interest in the application of process modeling and operations research analysis s to issues in health care design, delivery, or operations are encouraged to apply.

Objectives: The purpose of the Bonder Scholarship is to promote the development and application of operations research techniques to health care design, delivery and operations. The scholarship provides funding of \$5,000US to support the development of highly qualified individuals and promote the interchange of ideas and the dissemination of health services research knowledge in conjunction with INFORMS.

The Award: The Bonder Scholarship consists of a grant of \$4,000 which is intended to provide income support and tuition reimbursement for a promising young researcher. In addition, the award winner will be eligible for up to \$1,000 of travel funding to support participation in Health Application Section activities at the annual INFORMS conference. The tenure of the award is one year.

Selection Criteria: The award will be granted on the basis of excellence, innovation, preparation, and probability of candidate's success. Each candidate should submit three copies of the following materials: a curriculum vita, two letters of support, and a brief, two-page (single-spaced) summary of his or her proposed program of research. Candidates will be evaluated on the quality of their preparation to undertake a program of research in the field of health care. The proposed program of research will be judged according to its potential for practical and theoretical contribution as well as likelihood of successful completion.

Eligibility: All members of INFORMS currently pursuing doctoral studies are eligible. Applications from US and international members are welcome.

Application Process: Candidates are asked to forward their applications by *July 1, 2007* to the chairman of the Bonder Scholarship review committee, Gino Lim. Gino's contact information is provided on page 3.

Application Process (continued):

Notification: All applicants will be notified by September 15, 2007 of the results of the competition.

Background: Throughout his distinguished career, Dr. Seth Bonder has been a leader in applying operations research to planning national defense, and a pioneer in applying operations research methods to re-engineering health care delivery.

In his work with the military, Dr. Bonder used operations research to model telemedicine distant from care providers and medical expertise. He extended these contributions to support reengineering healthcare in the civilian sector. He has led the firm that he founded, Vector Research Inc., into the field of medical operations research, and created many of the applied aspects of that discipline.

Dr. Bonder has made major contributions to the operations research profession. He has served as president of the Operations Research Society of America and the Military Operations Research Society, and vice president of the International Federation of Operational Research Societies. He has been the recipient of numerous awards, including the Patriotic Service Award from the Secretary of the Army, and the George E. Kimball Medal. His colleagues recognized him by electing him to the National Academy of Engineering.

The William Pierskalla Best Paper Award

The *Health Applications Section* of INFORMS sponsors an annual competition for the **Pierskalla Award**, which recognizes research excellence in the field of health care management science. The award includes a \$1,000 honorarium for the best paper presented in a *Health Applications Section* sponsored session at each fall INFORMS conference. The award is named after Dr. William Pierskalla to recognize his contribution and dedication to improving health services research and delivery through operations research. Dr. Pierskalla is currently a professor at the Anderson School at UCLA and serves as an editor on numerous operations research journals.

Eligibility: Any paper presented in a session sponsored by the *Health Applications Section* during the INFORMS fall annual meeting is eligible for the award. However, to be considered for the award, a full paper must be submitted by September 1, 2004 to the Vice President of the *Health Applications Section*. The paper must be presented at the conference to receive the award, although the judging is based on the written paper. The paper can be a working paper, a submitted paper, or a published paper. If desired by the authors, the winning paper will be published in *Health Care Management Science* if it has not been published or is not under review elsewhere.

Judging: Papers are judged by a panel of four representatives from the *Health Applications Section*. Each paper is judged on its 1) contribution to operations research/management science in health care, 2) readability, clarity and organization of the paper, 3) technical content and scope relative to the length of the paper, and 4) originality.

The panel judging the papers reserves the right not to award a prize in any given year.

Application Process: Contact the current President of the *Health Applications Section* to submit your abstract and to present the results in a *Health Applications Section* sponsored session. Four copies of the written paper must be submitted to the President by September 1, 2006 to be considered for the award. If there are multiple authors, they must state in writing how they wish the honorarium to be distributed at the time the written paper is submitted.

Applicants are asked to forward their submission by August 1, 2007 to Julie Ivy, President of the *Health Applications Section*.

Report from the Editor of *Health Care Management Science*

HCMS: The Year in Review

The year 2005 marked another successful period in the history of *Health Care Management Science* (now published by Springer). Along with the successful publication of Volume 8, first two issues of Volume 9 are already published while 3rd and partially 4th issue of the volume is completed and scheduled for print in August and November 2006, respectively. This marks another remarkable accomplishment for HCMS sponsored by intellectual capital of **INFORMS Health Applications Section** members.

While we at HCMS are proud of these accomplishments, our eye is still on the future. One of our major goals for this year (yes again) is to be listed in the ISI database. ISI has been considering HCMS for some time, and Springer is after this goal. To speed up the process, please e-mail them (journals@isinet.com) and recommend that *Health Care Management Science* be included in their database. HCMS is a top-quality journal and deserves this recognition, especially for our non-US readership. Also, be sure to make note of HCMS is indexed and abstracted in ABI inform; EconLit; Journal of Economic Literature; SCOPUS; Statistical theory and Method Abstracts and Medline.

In addition, we are always looking for a new special issue editors. Anyone wishing to become special issue Editor, please contact Yasar A. Ozcan (ozcan@vcu.edu) to discuss the details. This really counts on promotions! For example, there will be a special issue for the papers presented in INFORMS Hong Kong Conference during June 25-28, 2006.

HCMS Publication Schedule, 2006

Health Care Management Science, Volume 9 No 1 (February 2006)

1. When do people visit a doctor?

S. Bessho & Y. Ohkusa

2. Modelling the distribution of hospital supply to achieve equity taking account of patient's behaviour.

M.Oliveira & G.Bevan

3. Stochastic bed balancing of an obstetrics hospital.

J.K. Cocohran & A. Bharti

4. Designing appointment scheduling systems for ambulatory care services.

T.Cayirli

5. Determinants of hospital loss in Thailand: experience from the first year of a universal coverage health insurance program.

S. Ngorsuraches & A. Sornlertlumvanich

6. Incremental changes in the workforce to accommodate changes in demand.

J.F Bard & H.W. Purnomo

7. Impact of sequencing successive surgical cases on post anesthesia care unit staffing.

E. Marcon & F. Dexter

8. A Note on Health Care Productivity with Uncertain Data

J.L. Hougaard & C. Overgaard

Health Care Management Science, Volume 9 No 2 (May 2006)

1. A stochastic model to evaluate options for antenatal genetic screening

S. Gallivan, M. Jit & M. Utley

2. A new organ transplantation-allocation policy: a case study of Italy.

M.E. Bruni, D. Conforti, N. Sicilia & S. Trotta

3. Optimal Pooled Testing.

B.A. Saraniti

4. Perceptual structure of the desired functionality of internet-based health information systems.

I. S. Currim, V. Gurbaxani, J. LaBelle & J. Lim

5. A Biobjective Model for the Locational Planning of Hospitals and Health Centers.

P. Mitropoulos, I. Mitropoulos, I. Giannikos & A. Sissouras

6. Analysis of uncompensated hospital care using a DEA model of output congestion.

G.D. Ferrier, M.D. Rosko & V.G. Valdmanis

7. A descriptive analysis of average productivity among health maintenance organizations, 1985 to 2001.

D.R. Wholey, J. Engberg & C. Bryce

Health Care Management Science, Volume 9 No 3 (August 2006)

Special issue of *Health Care Management Science* arising from fourth conference on Quantitative Modelling in the Management of Healthcare, University of Salford, UK - April 2004

1. Editorial: Hospital case payment systems in Europe.

R. Busse, J Schreyögg and P. Smith

2. Methods to determine reimbursement rates for diagnosis related groups (DRG): a comparison of nine European countries.

J. Schreyögg, T. Stargardt, O. Tiemann and R. Busse

3. Cost accounting and public reimbursement schemes in Spanish hospitals.

F. Sánchez-Martínez, J.M. Abellán-Perpiñán, J.-E. Martínez-Pérez and J. Puig-Junoy

4. Costs and prices for inpatient care in England: mirror twins or distant cousins?

D. Epstein and A. Mason

5. Cost accounting methodologies in price setting of acute inpatient services in Hungary.

P. Gaal, N. Stefka and J. Nagy

6. Inpatient reimbursement system in Italy: how do tariffs relate to costs?

G. Fattore and A. Torbica

7. Variable prospective payment in the Danish hospital sector and the development of a Danish case-mix system.

A. Ankjær-Jensen, P. Rosling and L. Bilde

8. Cost accounting to determine prices: how well do prices reflect costs in the German DRG-system?

J. Schreyögg, O. Tiemann and R. Busse

9. The definition of prices for inpatient care in Poland in the absence of cost data.

A. Koziarkiewicz, M. Starnirski, W. Stylo and W. Trąbka

10. Cost assessment and price setting of inpatient care in the Netherlands. The DBC case-mix system.

J.B. Oostenbrink and F.F.H. Rutten

11. Accounting and reimbursement schemes for inpatient care in France.

M.M. Bellanger and L. Tardif

Health Care Management Science, Volume 9 No 4 (November 2006)
(partial list)

1. A Review of Health Care Models for Coronary Heart Disease Interventions

K. Cooper, S.C. Brailsford, R. Davies, and J. Raftery

2. Observational study of operating room times for knee and hip replacement surgery at nine U.S. community hospitals.

F. Dexter, L.S. Weih, R.K. Gustafson, L.F. Stegura, M.J. Oldenkamp, and R.E. Wachtel

3. Using a Bayesian belief network to predict delayed length of stay for radical Prostatectomy.

W. Michalowski, S. Wilk, P. Poland, A. Thijssen, and M. Li

4. A mixture model approach to updating payment weights with an application to ICD-10 implementation.

J.M. Sutherland and C. Preyra

5. Cost-effectiveness of referrals to high-volume hospitals: an analysis based on a probabilistic Markov model for hip fracture surgeries.

A. Gandjour and E-J.Weyler

Contents and abstracts of all volumes of HCMS are available at Springer web site: <http://www.springer.com>

Call for Referees

To ensure the continued success of Health Care Management Science, manuscript referees are needed. Nominate, or volunteer yourself or a colleague, for this important activity. Included is a form used to submit a candidate for consideration. A broad spectrum of expertise and viewpoints is needed and useful to maintain and develop this vibrant journal. Critical review of submitted articles ensures quality of publication. A greater number of referees can also improve publication turn around times. Be a sport, do something fun and intellectually stimulating. Get the jump on the latest research and results! Fill out the form and send it to the editors:

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Health Care Management Science

Referee Profile



Name: _____

Title: _____

Affiliation: _____

Degrees: _____

Address (where to mail correspondence):

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Fax number: _____

Please list your specialty areas of expertise and/or interests in OR/MS and health care applications:

Specialty #1: _____

Specialty #2: _____

Specialty #3: _____

Specialty #4: _____

Specialty #5: _____

Comments/Suggestions for *HCMS*:

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Conference Announcements

The Operations Research Center is pleased to announce a new tradition: An annual conference that addresses an important area that Operations Research methods can significantly contribute. The first such conference will take place on Wednesday, May 23, 2007 and the topic is "Operations Research in Healthcare." In addition, a conference dinner will be held on Tuesday, May, 22, 2007 at the Boston Marriott Hotel in Kendall Square. Rising healthcare costs are one of the world's most important problems. In the United States the healthcare industry is approximately \$2 trillion, while healthcare costs have been increasing about 10% a year. Given the availability of medical care data involving millions of Americans over multiple years, revolutionary advances in data mining in the last decade motivated by the need to analyze gigantic data sets, the emergence of new methods from Operations Research (probabilistic modeling, optimization), there is a real opportunity for quantitative approaches to impact positively the delivery and quality of healthcare. In several other industries (finance, marketing, the internet, sports, revenue management, among others), quantitative methods have had a very significant effect. It is the aspiration of this conference to begin the dialog among researchers and practitioners about the potential use of methods from Operations Research in healthcare, provide new directions for research and generally improve the delivery and quality of healthcare. The structure of the conference is: A full day of plenary talks and a poster session. If you would like to contribute to the poster session, within the theme of the conference, please submit a one page proposal to Laura Rose via email at lrose@mit.edu by April 25, 2007. We will notify accepted posters by May 2, 2007.

For detailed information about the conference, including plenary speakers, registration information, and accommodations, please visit the conference website at <http://www.pumba.mit.edu>

Cindy Barnhart and Dimitris Bertsimas
ORC codirectors

All New! A Health Applications Track at the INFORMS practice meeting this spring in Vancouver. The new track will include talks related to resource allocation in hospitals and outpatient settings, emergency services, and other emerging applications of Operations Research to health care. In addition to the track there will also be networking events for researchers and practitioners of Health Care OR including birds-of-a-feather discussion groups, and a networking lunch meeting. Academics and practitioners are encouraged to attend. See the conference web site for program details (coming soon): <http://meetings.informs.org/Practice07/>

Operating on Health Care: A Symposium on Operations Research in Health Care,
Operating on Health Care: A Symposium on Operations Research in Health Care. This two-day symposium highlighting the latest research by international experts in the field is being organized by the University of British Columbia's Centre for Health Care Management.

Location: UBC main campus, Vancouver, BC. Dates: August 16 & 17, 2007. Details available at <http://www.chcm.ubc.ca/operatingHC.cfm>

Part of the conference is dedicated to the presentation of health care OR work by graduate students and recent graduates, so we invite these researchers to submit a title and abstract of their work to steven.shechter@sauder.ubc.ca for inclusion in poster sessions. The deadline for this is June 30th.

The 33rd conference on
Operational Research Applied to Health Service
(ORAHS'2007)

15-20/07/2007, Saint Etienne, France
<http://www.emse.fr/orahs>

Unique international conference on Health Service Engineering for 33
Years

together with a 2-day tutorial

About ORAHS'2007

ORAHS'2007, sponsored by EURO, ROADEF, GDR-RO, GDR-MACS, is a unique international conference since over 30 years on engineering and management of health care delivery including issues related to design and management of health care systems and clinical applications. It aims bringing together researchers, health professionals, IT solution providers and consultants in the area.

Salient features of ORAHS'2007

Following the tradition of ORAHS annual meetings with (i) presentation and debate with local health decision-makers and leaders of research initiatives in health care delivery, (ii) technical presentations, (iii) field visits and tours and (iv) a rich social program.

Feature sessions by several national/regional working groups on management and engineering of health care systems for picturing research in the world on health care engineering.

Presentation of French and European initiatives in both research and education in the area of health care engineering.

Identifying project ideas addressing challenges of health care delivery that need joint European/international research efforts. For information, there is a call for EU projects on "optimizing the delivery of health care" with deadline on September 10.

An intensive tutorial track of 2-days in healthcare delivery engineering including a field visit (July 16-17, 2007). Tutorial talks of 2 hours each by 7 world renown experts (Yasar Ozcan, Mike Carter, Steve Gallivan, Eva Lee, Frank Dexter, Arjan Shahani, Ruth Davis).

Special issues in Annals of Operations Research, Health Care Management Science, International Journal of Healthcare Information Systems & Informatic.

Themes

Contributions from health policy decision makers and practitioners are welcome. Topics include but are not limited to:

- Health-care operations planning and scheduling
- Emergency Department Models
- Logistics and Supply Chain Management
- Capacity Planning and Management
- Work-force staffing and planning
- Disease modelling and prevention
- Patient flow modelling
- Quality and Performance Measurement
- Access and Service Quality
- Management and Funding Systems
- Ambulance location and control
- Risk management and patient safety
- Information and communication technologies in health care
- Organisational Issues

Submission

Please follow instruction on the conference website for submission of abstracts. Full papers are now accepted for consideration in special issues.
Invited sessions are encouraged.

Important Dates

- June 01, 2007 : deadline for submission of abstracts
- June 01, 2007 : deadline for advance registration rate
- July 15-20, 2007: ORAHS'2007 conference
- July 16-17, 2007: Tutorials

Other Announcements

W. Art Chaovalitwongse wins CAREER award

W. Art Chaovalitwongse is an Assistant Professor of Industrial and Systems Engineering, Rutgers University. He received a B.S. degree in Telecommunication Engineering from King Mongkut Institute of Technology Ladkrabang, Thailand, in 1999 and M.S. and Ph.D. degrees in Industrial and Systems Engineering from University of Florida in 2000 and 2003. He previously worked as a Post-Doctoral Associate in the NIH-funded Brain Dynamics Laboratory, Brain Institute and in the departments of Neuroscience and Industrial and Systems Engineering at University of Florida. Before joining Rutgers, he worked for one year at the Corporate Strategic Research, ExxonMobil Research & Engineering, where he managed research in developing efficient mathematical models and novel statistical data analyses for upstream and downstream business operations.

His teaching and research interests are in the areas of Data Mining, Combinatorial and Global Optimization, Epilepsy and Brain Disorders, Computational Biology, Supply Chain and Logistics, and Optimization in the Internet. He has conducted research in integrating the scientific concepts and research tools from across disciplines including neuroscience, computational biology, operations research, and computational statistics. His work in epilepsy was awarded for Excellence in Research from the University of Florida, and he also holds several patents of novel optimization techniques adopted in the development of seizure prediction system. He has articles published in Mathematical Programming, Operations Research Letters, Annals of Operations Research, IEEE transactions on Bio-medical Engineering, Journal of Combinatorial Optimization, Optimization Methods and Software, Computational Statistics and Data Analysis, Epilepsy Research, Journal of Clinical and Neurophysiology, and Epilepsia. His articles were also awarded the William Pierskalla best paper for research excellence in Operations Research and Health Care applications by Institute of Operations Research and the Management Sciences (INFORMS) and ranked 5th in Top 25 Articles in Operations Research Letters. He is a member of MPS, SIAM, INFORMS and AES (American Epilepsy Society) and is listed in Who's Who in America, Who's Who in the World (Marquis edition), and Who's Who in Engineering Education. In addition, he is a permanent member of DIMACS, a faculty fellow of the Center for Supply Chain Management (Rutgers Business School), an affiliated member of Comprehensive Epilepsy Center, St. Peter's University Hospital. Art is also a recipient of 2006 NSF CAREER Award.

The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of the early career-development activities of those teacher-scholars who most effectively integrate research and education within the context of the mission of their organization. This premier program emphasizes the importance the Foundation places on the early development of academic careers dedicated to stimulating the discovery process in which the excitement of research is enhanced by inspired teaching and enthusiastic learning.

New additions for some of the HAS members

Amy Wilson (former HAS chair) and her husband Mathew Swenson are pleased to announce the birth of their son **Wilson Finn Ireland Swenson**. Wilson (pictured below) was born on November 11, 2005, weighing 9 pounds, 4 ounces and 21 inches long



Murray Côté (former HAS chair) and Tiffany Radcliff (former mystery door prize winner) are the proud parents of **Natalie Anne Côté** (pictured below with Murray). She weighed in at 7 pounds, 3 ounces and was just shy of 22 inches long. Despite the date given in the photo, Murray assures us that this happened on April 20, 2007, rather than 26 years in the future! Instead, it's just a sign that the new dad needs to change the batteries in his camera more often!

