

Networking as a Tool for Career Progression

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Many thanks to WISDOM for this interesting panel and for bringing us together. Special thanks to Professor Paula Carroll for the invitation to speak with you.

The logo for WISDOM, with the word in a bold, sans-serif font. The 'i' and 'o' are a lighter blue color, while the other letters are a darker blue. A thin blue diagonal line extends from the top right of the 'M' towards the right edge of the logo area.

WISDOM

WOMEN IN SOCIETY:
DOING OPERATIONAL RESEARCH
AND MANAGEMENT SCIENCE

Outline of This Presentation

- ▶ **On Being an Operations Researcher**
- ▶ **Early in One's Career**
- ▶ **Networking in Mid-Career**
- ▶ **Networking with Journalists and Decision-Makers**
- ▶ **Giving Back and Mentoring Through Networking**

On Being an Operations Researcher

On Being an Operations Researcher

Conducting research and teaching are a passion and no two days are ever alike!

Everyone should have an opportunity to explore science and to become a scientist to explore our beautiful world and to add to knowledge discovery.



Intellectual curiosity and creativity underly what we do. We care about making a positive impact on our world.

On Being an Operations Researcher

I use mathematics and tools of operations research (OR) to enhance our understanding of network systems in which humans interact with infrastructure.



Networking is very natural to me since I study networks.

Networking enables the sharing of ideas and information, helps to build skills, expertise, and confidence, forges and strengthens professional relationships, and unveils new opportunities.

A great professional society, such as INFORMS or the Operational Research Society, as well as fora such as WISDOM and WORMS are outstanding platforms for networking, at all stages of one's career in Operations Research and Analytics.

Networking takes different forms whether you are a student, an early career professional, a mid-career one, or even senior.

Networking can enrich you professionally as well as personally and provide advice as well as support.

For the Love of **Operations Research (OR)** and **Networks**

From my first course at Brown University on the subject to my first projects in industry - working on naval submarines in Newport, Rhode Island, I was drawn to the power of networks, especially when combined with computing.



Off to Grad School for a PhD

While working in high tech defense consulting I very soon I realized that I did not like having a boss. I commuted, ran marathons, and worked full time while taking courses for my Master's at Brown.

Dr. Stella Dafermos was the only female professor at the time in either Engineering or Applied Mathematics at Brown University. I became her first PhD student.

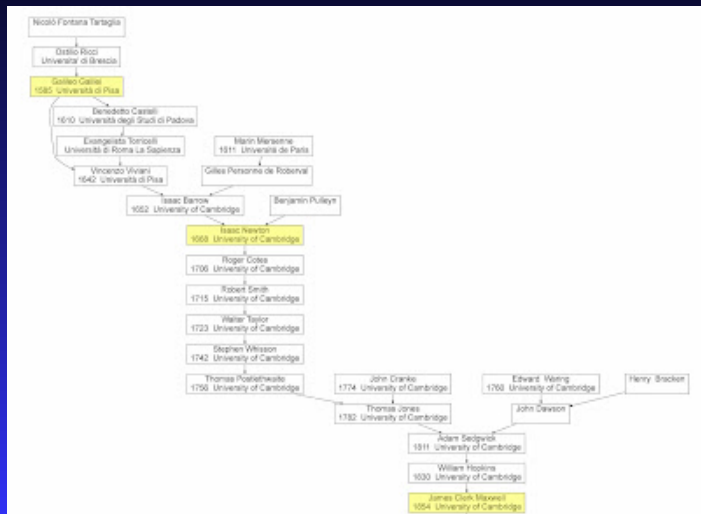


Anna Nagurney



Networking

On the Shoulders of Giants - My Academic Genealogy - **Maxwell, Newton, and Galileo**



Books



Early in One's Career

Early in One's Career

I am sure that everyone remembers one's first conference, as an attendee and/or presenter, and the excitement and anticipation. The venue may have been stunning (or less than so). The conferees that one met then and the shared experiences and conversations at conferences since have become part of your social and professional capital.

As an eager conferee, I was always hungry for advice, and, at every opportunity, would approach senior colleagues, whose work I had appreciated and learned much from, at conferences.

Early in One's Career

I would often ask, “What advice can you give me for professional success?” and the response would often be to “grow your network.”

That could entail, as an educator, investing in students, both undergraduates and graduate ones, including PhD students, but, also, the nurturing of new collaborations and partnerships for a wide range of professional activities, from conducting research and publishing to doing service.

Having common interests helped to build stronger relationships and to enhance both existing networks as well as to grow or establish new ones. And, importantly, working with others, made for more enjoyable and effective professional endeavors.

Our Fabulous **Scientific** Community



After I received my PhD, I met **Professor George Dantzig of Stanford University**, the developer of the simplex method and a Father of OR!

He came to the first presentation that I ever gave at a conference, post PhD, and it was at the Mathematical Programming Symposium at MIT.

Places that OR May Take You as You Grow Your Networks

Yalta, Ukraine with my taxi driver Igor



Buenos Aires, Argentina and the Blue Lagoon in Reykjavik, Iceland



Places that OR May Take You

Italy and Switzerland



Oxford University and Imperial College

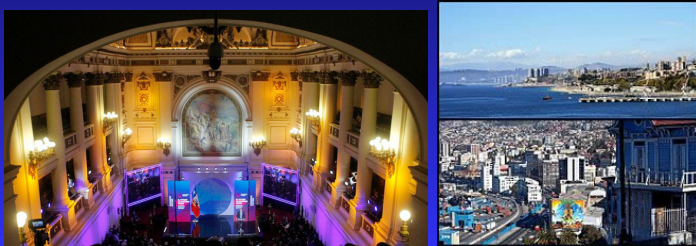


Places that OR May Take You

Radcliffe Institute for Advanced Study at Harvard University



Congreso Futuro, Chile!



Early in One's Career

Early on in my academic year - and I have always also had a foot in practice, since I had worked for several years in high tech consulting and software engineering in the defense sector and enjoyed such work tremendously - I took advantage of various INFORMS society memberships.

Joining, for example, the Transportation and Logistics Society of INFORMS, the Computing Society of INFORMS, as well as the Practice Section, and MSOM, and taking part in business meetings at conferences, enabled me to meet thought leaders and highly successful experts, from around the globe.

I benefited from newsletters, special focused conferences, and even e-lists with information of job openings and other opportunities.

Early in One's Career

The **WORMS** lunches at **INFORMS** conferences are where, pre-pandemic and post-pandemic, many of my former PhD students would be sure to gather, and where we enjoyed the camaraderie, getting re-energized, meeting new folks, and also hearing about various recipients of awards!



WISDOM now plays an excellent role in support of females and networking!

Networking in Mid-Career

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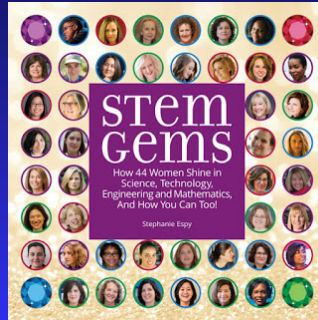
Mid-career, networking continues to be essential, with staying current and enhancing one's skills and professional portfolio, of high relevance and importance.



As the Faculty Advisor to the UMass Amherst INFORMS Student Chapter, we have been honored to host many luminaries in our field, both practitioners as well as academics.

Networking in Mid-Career

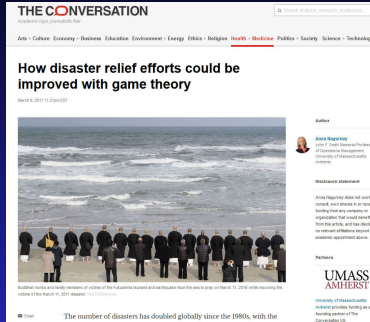
In mid-career, one often assumes additional leadership roles, which open up many possibilities, based on one's interests and time budget. One can “run for office,” serve on various committees, according to one's interests, be invited to serve on editorial boards or award committees, be an advocate for the profession, and, of course, also give back and mentor.



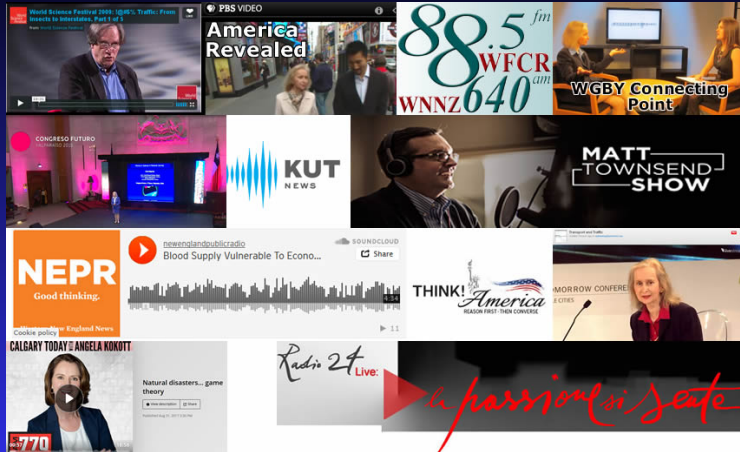
Networking with Journalists and Decision-Makers

Networking with Journalists and Decision-Makers

Writing OpEds



Coverage by the Media



Some of My Media Interviews in the Pandemic



Some of the Media Interviews on the War on Ukraine

Economic dangers from Russia's invasion ripple across globe

By PAUL WISEMAN and DAVID McHUGH March 2, 2022



Feedstuffs went live.

March 16 at 2:00 p.m.

The war in Ukraine is no longer just a story about a conflict between nations. It's having an immedi...

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Anna Nagurney with John Moore



The John Batchelor Show

1/2: #Ukraine: The Kyiv School of Economics is open for business under fire. Paul Gregory @HooverInst @PaulR_Gregory. Anna Nagurney @Supernetworks, University of Massachusetts. Paul Becker, Duke University

Russian war in world's 'breadbasket' threatens food supply

By JOSEPH WILSON, SAMY MAGDY, AYA BATRAWY and CHINEDU ASADU March 6, 2022

'I fear a cultural genocide'; Ukrainians in Western Mass. watch, worry and help

Published: Feb. 28, 2022, 5:55 p.m.



Threat of Russian cyber attacks likely for not just Ukraine, but also in the US

No Ikea Shelves, No Levis: The Retail Exodus From Russia Is On

Since the invasion of Ukraine began, the increasing financial and reputational risks of doing business in Russia are leading Western brands to halt operations.

Russian Sanctions Snarl Shipping Even as Pandemic Pressure Eases



March 11, 2022

Liz Alderman and Jerry Gross

Giving Back and Mentoring Through Networking

Giving Back and Mentoring Through Networking

We can accomplish so much more by supporting one another and working together.

Typically, one, early on, networks laterally and “up,” and, as time passes, it is critical to give back and to nurture and mentor others. There are tremendous advantages to this for all parties concerned.

Giving Back and Mentoring Through Networking

Those who are mentored learn from the experiences and advice of others, and benefit from the positive support.

Those who mentor others and advocate help to grow the profession (and perhaps even one's organization) and one's present and future networks.

The mentor also gains personally and professionally from helping out and learns from more junior constituents.

Plus, one gets tremendous pleasure from seeing mentees succeed and shares in the happiness!

Being a Part of a Community Can Help in Overcoming Challenges

A professional society can also provide its members valuable support and networking opportunities at different stages of their professional careers and, for this, and the friendships made and the memories, I am very grateful.



How Do I Build a Professional Network with the Help of INFORMS?

Anna Nagurney, University
of Massachusetts Amherst



It's All About People!



Thank you very much!



The Virtual Center for Supernetworks



Supernetworks for Optimal Decision-Making and Improving the Global Quality of Life

Director's Welcome	About the Director	Projects		Center Associates	Media Coverage	Braess Paradox
Downloadable Articles	Visuals	Audio/Video	Books	Commentaries & OpEds	The Supernetwork Sentinel	Congratulations & Kudos



POMS 2024
Minneapolis
April 27, 2024

The Virtual Center for Supernetworks is an interdisciplinary center at the Isenberg School of Management that advances knowledge on large-scale networks and integrates operations research and management science, engineering, and economics. Its Director is Dr. Anna Nagurney, the Eugene M. Isenberg Chair in Integrative Studies.

Mission: The Virtual Center for Supernetworks fosters the study and application of supernetworks and serves as a resource on networks ranging from transportation and logistics, including supply chains, and the Internet, to a spectrum of economic networks.

The Applications of Supernetworks Include: decision-making, optimization, and game theory; supply chain management; critical infrastructure from transportation to electric power networks; financial networks; knowledge and social networks; energy, the environment, and sustainability; cybersecurity; Future Internet Architectures; risk management; network vulnerability, resiliency, and performance metrics; humanitarian logistics and healthcare.

Announcements and Notes	Photos of Center Activities	Photos of Network Innovators	Friends of the Center	Course Lectures	Fulbright Lectures	UMass Amherst INFORMS Student Chapter
Professor Anna Nagurney's Blog	Network Classics	Doctoral Dissertations	Conferences	Journals	Societies	Archive

Announcements and Notes from the Center Director
Professor Anna Nagurney
Updated: May 23, 2024
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Professor Anna Nagurney's Blog
RENeW
Research, Education, Networks, and the World: A Female Professor Speaks

