



Third Annual Conference of the Society for the Study of Nanoscience and Emerging Technologies

November 7-10, 2011

Tempe, Arizona / Tempe Mission Palms Resort & Hotel

Welcome

Welcome to the Third Annual Conference of the Society for the Study of Nanoscience and Emerging Technologies (S.NET)!

After the annual conferences in Seattle (USA) and Darmstadt (Germany), this third conference testifies to the continuity of the S.NET and its meetings, as well as, of course, to the interest in its topics and the health of the relevant scholarly communities. There are already plans for a fourth annual meeting, in Enschede (The Netherlands).

S.NET is an international association, and we are most pleased that the meeting has contributions from other places on the globe than North America and Europe. Also visible is the variety of communities, viewpoints, and methodologies in the social sciences and humanities upon which S.NET builds, and which are essential for open intellectual exchange towards the advancement of knowledge and understanding of nanotechnologies in society. And while contributions by scientists and engineers are visible as both subjects being studied and practitioners with whom we engage, we would always welcome more direct contributions beyond the modest numbers in this year's program.

It is interesting and, perhaps, significant, that the broader scope indicated by having "emerging technologies" in the name of our society is more apparent now that geoengineering will be discussed (in the opening plenary) and synthetic biology, robotics, and biotechnology (Still emerging? Anyhow, still controversial) will be discussed in individual papers and posters. The broadening of our scope will be one of the topics in the closing plenary, which will be actively moderated by Davis Baird, our President-Elect, and myself.

I would like to close by extending my thanks, and that of all S.NET members, to the program committee, its chairs Barbara Herr Harthorn from the Center for Nanotechnology in Society at the University of California, Santa Barbara (CNS-UCSB), Dave Guston from the Center for Nanotechnology in Society at Arizona State University (CNS-ASU), and the conference staff (Regina Sanborn, Michelle Iafrat, and Elizabeth Curran at CNS-ASU, Lori Hiding, Bonnie Lawless, William Curran, and Andra Williams at CSPO, and Sage Briggs and Shawn Barcelona at CNS-UCSB) for their tremendous effort in bringing this third and largest annual conference of S.NET together so well.

Arie Rip (University of Twente, The Netherlands)
President S.NET



Table of Contents

Conference Information	1
Program	2
Additional Conference Activities	15
Monday Evening Speakers	18
Plenary Speakers	20
Executive Committee	21
Program Committee	23
List of Participants.....	24
Local Attractions	29
Restaurant Guide	31
Maps	Inside back cover

Conference Information



Registration Desk

The conference registration desk will be staffed throughout the conference. Registration desk hours and locations are:

Monday, November 7 1-4:00 p.m. / Hotel Lobby, and 4:00p.m.-7:00 p.m./Foyer

Tuesday, November 8 8:00 a.m.–7:00 p.m. / Foyer

Wednesday, November 9 8:00 a.m.–8:00 p.m. / Foyer

Thursday, November 10 8:00 a.m.–1:00pm / Foyer

Meals

Full conference registration includes hotel break station access, Tuesday and Wednesday, from 7:00 a.m.–5:00 p.m. Thursday break station access will be available from 7:00 a.m.–noon. A continental breakfast will be provided in the break stations from 7:00 a.m.–8:00 a.m., and will include oatmeal, yogurt, and other various snacks. Morning break snacks like croissants, fruit, cheese, and beverages will be provided in the break stations from 10:00 a.m.–12:00 p.m. Afternoon break foods will be provided in the break stations from 12:30 p.m.-5:00 p.m., and will include daily rotation of snacks like antipasto, sushi, and tomato mozzarella bruschetta among other various snacks, treats, and beverages. Monday evening there will be an opening reception with heavy hors d'oeuvres, and a cash bar. The opening reception will be held on the ASU Tempe campus in the Old Main building. All other meals are “on your own.” In addition to the hotel’s restaurant, you may also go to page 31 of this program for a complete guide to restaurants in the area.

Emergencies

If you have a medical emergency, call 911. If you need assistance for other reasons, go to the conference registration desk or to the hotel front desk in the lobby.

Internet access & business services

The Tempe Mission Palms Resort & Hotel offers an on-site, state-of-the-art business center (7 a.m.-10 p.m.), including Pentium computer, Internet and e-mail access, laptop port printer, copier, and fax machine. In addition to the Business Center, the Tempe Mission Palms Resort & Hotel offers high-speed, wireless Internet access (“TMPH”) throughout the hotel.

Weather and attire

The average high in November is around 80°F/27°C and the average low is around 55°F/13°C. Conference attire is Arizona casual. Consider a light sweater or jacket for outside activities.

Getting Around

The Tempe Mission Palms Resort & Hotel is located less than a mile from Arizona State University and is within walking distance to Mill Avenue and downtown Tempe’s shopping, dining, and entertainment district. The hotel concierge can assist you with your transportation needs and questions.

Free Shuttles: Tempe’s free Orbit neighborhood shuttles (small blue bus) and ASU’s Flash (large bus) provide frequent (approximately every 15 minutes) transit around downtown Tempe, ASU, and other parts of Tempe. No boarding pass or ticket of any kind is required to ride these shuttles. Simply board the bus at any shuttle stop along the route. For routes and schedules, visit online at <http://www.tempe.gov/tim/Bus/Orbit.htm> for the Orbit and

http://uabf.asu.edu/parking_commuter_shuttle_tempe for the Flash.

Public Transportation: Tempe is served by Valley Metro for public transportation — bus, shuttle, and light rail services. For fares, routes and schedules, call (602) 253-5000 or visit online at <http://www.valleymetro.org/>. The 20-mile light rail connects Tempe, Mesa, and Phoenix, with two convenient stops just one to two blocks on either side of the hotel.

Taxicab: Two local cab companies are Union Cab (480-303-9999) and Discount Cab (602-200-2000). The hotel concierge can assist you in obtaining a cab.

Hotel Airport Shuttle: The Tempe Mission Palms Resort & Hotel provides complimentary airport transportation to and from Phoenix Sky Harbor International Airport from 5:30 a.m. to 10:30 p.m. daily. Upon arrival, please contact the hotel to request shuttle transportation at (480) 894-1400.

Program

Monday, November 7

4:00-4:20 p.m.

Opening Remarks

Located in the Palm ABDE

Program Co-chairs: Barbara Herr Harthorn, University of California, Santa Barbara, USA
Dave Guston, Arizona State University, USA

Michael M. Crow, President, Arizona State University, USA

4:20-5:45 p.m.

Plenary I - Control Dilemmas: Great and Small, and The Curious Case of SPICE: Deliberating Geoengineering as Anticipatory Research Governance

Located in the Palm ABDE

Chair: Arie Rip, University of Twente, The Netherlands
Steve Rayner, Oxford University, UK
Nick Pidgeon, Cardiff University, UK

6:00-7:00 p.m.

Opening Reception

Located at Old Main building on the ASU Tempe campus
Please see page 17 for map, walking directions, and details.

7:00-8:30 p.m.

Immigration and Emerging Technologies Panel

Located in the the Carson Ballroom of Old Main on the ASU Tempe campus
Please see page 17 for map, walking directions, and details.

Tuesday, November 8

8:30-10:00 a.m.

Panel Session I

Panel 1: Nanomaterials, Toxicology & Risk

Located in Palm D

Chair: Karl Bryant, New Paltz, State University of New York, USA

“Undone Science and Science Un-done at Nanotechnology’s Periphery”
Frederick Klaessig

“Impacts of Zinc Oxide Nanoparticles on the Mussel”
Shannon Hanna, Robert Miller, Hunter Lenihan

“Antimicrobial Metal Nanoparticles: Science, Practice, and Unanswered Questions”
Kathleen Eggleston

Panel 2: Nano, Media & the Public

Located in Palm E

Chair: Sharon Freidman, Lehigh University, USA

Program



(Tuesday continued)

“Attitudinal Communities and the Interpretation of Nanotechnology News: Frames, Schemas, and Attitudes as Predictors of Reader Reactions”
Susanna Priest and Ted Greenhalgh

“A Computer-Aided Affective Content Analysis of Nanotechnology Newspaper Articles”
Robert Davis

“Business as Usual: Mass Media Coverage on Nanotechnologies in Three European Countries, 2000-2010”
Christiane Hauser, Peter Hocke, and Torsten Fleischer

Panel 3: Studying Emerging Innovation

Located in Wind Flower

Chair: Chris Newfield, University of California, Santa Barbara, USA

“Identifying Emerging Topics and Predicting Structural Changes in Nanoscience”
Kevin Boyack, Richard Klavans, and Henry Small

“Diffusion and Network Formation of Emerging Technologies: The Case of RNA Interference”
Ismael Rafols, Michael Hopkins, and Loet Leydesdorff

“Nanotechnology and International Security: The Russian Federation”
Margaret Kosal and Graham Sweeney

Panel 4: The Governance of Ethically Controversial Emerging Technologies, I

Located in Palm F

Chairs: Christopher Coenen, Karlsruhe Institute of Technology, Germany
Simone Arnaldi, University of Padua, Italy

“Emerging Technologies and the Political Meaning of Ethics”
Luigi Pellizzoni

“Visions and Ethics in Current Discourses on Human Enhancement”
Arianna Ferrari and Armin Grunwald

“Regulating Emerging Technologies: Preliminary Remarks on Legal Trends in the European Union”
Elena Pariotti and Daniele Ruggiu

Discussants: George Khushf, Astrid Schwarz, and Elena Simakova

Panel 5: Emerging Technologies and the Future of Medicine

Located in Sand Lotus

Chair: Cyrus Mody, Rice University, USA

“Responsible Innovation and the Multiple Futures of Diagnostic Instruments for Alzheimer’s Disease”
Yvonne Cuijpers and Harro Van Lente

“Well-Constructed Systems Biology. Integrating Socio-Humanist Research”
Rune Nydal, Sophia Efstathiou, and Astrid Lægreid

10:00-10:30 a.m.

Break

(Tuesday continued)

10:30 a.m.-Noon

Panel Session II

Panel 6: Regulating Nano in Europe and Asia

Located in Wind Flower

Chair: Jennifer Kuzma, University of Minnesota, USA

“Nano Registers in Germany and Europe – Prospects and Challenges”
Torsten Fleischer, Christiane Hauser, and Peter Hocke

“One Size Fits All? The Debates about the Regulation of Manufactured Particulate Nano materials in the European Union and Germany”
Torsten Fleischer, Christiane Hauser, and Peter Hocke

“Informational Regulation of Nanotechnology in India: Lessons from Agricultural Biotechnology”
Indrani Barpujari

Panel 7: Gaining Traction on Futures

Located in Palm D

Chair: Cynthia Selin, Arizona State University, USA

“The Security Implications of Cognitive Neuroscience Research”
Margaret Kosal and Jonathan Huang

“Developing a Methodology for Rapid Response Social Science Research Using Leading Edge Information Technology in the Context of ELSI Research at ORNL”
Christopher Lenhardt, Amy Wolfe, David Bjornstad, and Barry Shumpert

“Emergent Technology Assessment: The Transition Initiative and Energy Futures”
Gretchen Gano

“Technolife: Films, Social Media, and Imaginaries in Emerging Technologies”
Kjetil Rommetveit

Panel 8: The Governance of Ethically Controversial Emerging Technologies, II

Located in Palm F

Chairs: Christopher Coenen, Karlsruhe Institute of Technology, Germany
Simone Araldi, University of Padua, Italy

“Emerging Technologies and the Political Meaning of Ethics”
Luigi Pellizzoni

“Visions and Ethics in Current Discourses on Human Enhancement”
Arianna Ferrari and Armin Grunwald

“Regulating Emerging Technologies: Preliminary Remarks on Legal Trends in the European Union”
Elena Pariotti and Daniele Ruggiu

Discussants: George Khushf, Astrid Schwarz, and Elena Simakova

Panel 9: What are WE Doing?

Located in Palm E

Chair: Marianne Boenink, University of Twente, The Netherlands

Program



(Tuesday continued)

“Current Activities of Nano ELSI in Korea”

Ivo Kwon and Jeongyim Seo

“The Challenges that the Debates on Nanotechnology are Bringing to Social Studies of Science”

Julia Guivant

“Nanoscale Science Ethical, Legal, and Social Issues (ELSI) Analyses: Issues, Nano-Attributes, and Potential Applications”

Amy Wolfe, David Bjornstad, Christopher Lenhardt, Barry Shumpert, Stephanie Wang, and Mitchell Doktycz

Panel 10: Discussion & Demonstration

Making Makers: New Tools and Transformative Organizations in DIY Technoscience Located in Sand Lotus

Chair: Dave Conz, Arizona State University, USA

Carlo Sammarco, Arizona State University, USA

12:15-1:30 p.m.

Plenary II - Nanotechnology and Labor: Trends in Industry and Union's Perspectives

Located in Palm ABC

Chair: Barbara Herr Harthorn, University of California, Santa Barbara, USA

Noela Invernizzi, Universidade Federal do Paraná, Brazil

2:00-3:30 p.m.

Panel Session III

Panel 11: Food, Nanotech Food

Located in Palm E

Chairs: Jennifer Rogers-Brown, Long Island University, USA

Christine Shearer, University of California, Santa Barbara, USA

“The Social and Ethical Dimensions of Biosensors: A Case Study from Animal Production”
Kyle Whyte, Paul Thompson, John Stone, Lawrence Busch, and Monica List

“International Standards for Trade of Nano-coated Produce?”
Steve Suppan

“Politics of Biotechnology in Latin America: The RR Soybean Argentina Case Study”
Pierre Delvenne

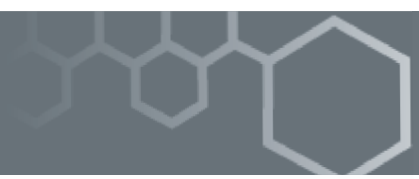
Panel 12: Grasping the Future, or Grasping at Straws?

Located in Palm D

Chair: George Khushf, University of South Carolina, USA

“Ethics of Technology and the Prejudice in Favor of the Real”
Simone Van Der Burg

Talking Future: On the Grammar of Anticipation Practices in the Context of Emerging Technosciences
Ulrike Felt



(Tuesday continued)

“Governance of and by Expectations”
Kornelia Konrad

“No Time like the Present (The Whole Story)”
Alfred Nordmann

Panel 13: Behind the Promises of our Biotechnical Futures
Located in Wind Flower

Chair: Eleonore Pauwels, Woodrow Wilson International Center for Scholars, USA
Clark Miller, Arizona State University, USA

“Super-computers, evolution and the fabrication of life: How can STS contribute to more reflexive developments in systems and synthetic biology?”
Ana Delgado

“Sustainability and Anticipatory Governance of Synthetic Biology.”
Ana Delgado

Discussants: Cynthia Selin, Christopher Coenen, Bruce Rittman, and Xiao Wang

Panel 14: Inequity in Emerging Technologies?
Located in Palm ABC

Chair: Susan Cozzens, Georgia Institute of Technology, USA

“Impact on Abilities Seen as Essential for Democracy”
Gregor Wolbring

“Career Pathways of Female and Male Nanoscientists”
Suzanne Gage Brainard

“Nanoremediation: Are There Equity Concerns?”
Mary Collins

“Institutional Path Dependency, Inequality, and Nanotechnology”
Walter Valdivia and Susan Cozzens

Panel 15: Roundtable—Responsible Innovation and Responsible Governance
Located in Palm F

Chairs: Sally Randles, Manchester Institute of Innovation Research, UK
Jan Youtie, Georgia Institute of Technology, USA

3:30-4:00 p.m.

Break

4:00-5:30 p.m.

Panel Session IV

Panel 16: Roundtable—Pacing Law and Policy with Science and Technology
Located in Palm D

Chair: Gary Marchant, Arizona State University, USA
Brad Allenby, Joseph Herkert, David Gartner, and Jennifer Kuzma

Program



(Tuesday continued)

Panel 17: Roundtable—Engaging the Public in Nanotechnology: Strategies, Approaches, and Resources

Located in Wind Flower

Chair: Rae Ostman, Sciencenter, USA

Ira Bennett, Brad Herring, Frank Kusiak, and Paul Martin

Panel 18: Roundtable—Using Large-scale Datasets to Understand the Trajectories of Emerging Technologies

Located in Sand Lotus

Chairs: Jan Youtie, Georgia Institute of Technology, USA

Alan Porter, Georgia Institute of Technology, USA

Kevin Boyack and Jose Lobo

Panel 19: Integration Research: Sites of Inquiry and Application, I

Located in Palm E

Chair: Erik Fisher, Arizona State University, USA

“Stirring’ the Governance Capacities of Experts-in-the-Making”

Erik Fisher

“Metaphoric Redescriptionsof Laboratory Engagement”

Farzad Mahootian

“The Responsibility of Being Responsible: Narratives of Innovation and Leadership from Integrated Laboratories”

Brenda Trinidad

“STIR and the City: Integration Research and Sustainability Science”

Arnim Wiek

Panel 20: Gender, Race, and Nanotechnology

Located in Palm F

Chair: Jennifer Rogers-Brown, Long Island University, USA

“Talking Nano: The Importance of Gender, Race, and Power in Deliberations on the Risks and Benefits of Nanotechnology”

Amanda Denes, Rachel Cranfill, Barbara Herr Harthorn, Christine Shearer, Julie Whirlow, Shannon Hanna, and Jennifer Rogers-Brown

Public Deliberation and Democratic Participation: The Methodological and Political Possibilities of Deliberation on Nanotechnology

Jennifer Rogers-Brown, Christine Shearer, and Barbara Herr Harthorn

De/constructing Risk: Masculinities and the Disciplining of Risk Perceptions

Christine Shearer, Jennifer Rogers-Brown, and Barbara Herr Harthorn

5:45 p.m. - Close

Plenary III - Theater & Film to Engage the Public

Located in the Palm ABC

Organizers: Rae Ostman, Sciencenter, USA

Leigha Horton, Science Museum of Minnesota, USA

Stephanie Long, Science Museum of Minnesota, USA

Wednesday, November 9

8:30-10:00 a.m.

Panel Session V

Panel 21: Roundtable—What We've Learned about Nano and Society: A Working Session on Data Sharing for NSF NSECs

Located in Wind Flower

Chairs: Gretchen Gano, Arizona State University, USA

Jessica Adamick, University of Massachusetts, USA

Peter Granda

Panel 22: Roundtable—Tales of Engagement and Emergence

Located in Sand Lotus

Chair: Ana Delgado, University of Bergen, Norway

Erik Fisher, Fern Wickson, Jane Calvert, Kjetil Rommetveit, Sarah Davies,

and Angela Pereira

Panel 23: Emerging Histories of Emerging Technologies, I

Located in the Palm ABC

Chair: Cyrus Mody, Rice University, USA

"What Happens When an Emerging Technology Never Quite Emerges? Josephson Computing in the '70s and '80s"

Cyrus Mody

"Nano by Any Other Name...is Probably Just That Other Name: The Problem of Regulating Nano materials as 'New' Materials in the US"

Jody Roberts

"Regulatory Analogues? Environmental History and Nanotechnology's Potential Future"

Roger Eardley-Pryor

Panel 24: Roundtable—What World Do Nano Images Afford?

Located in Palm D

Chair: Rasmus Tore Slaattelid, University of Bergen, Norway

Arie Rip, Colin Milburn, Alfred Nordmann, and Astrid Schwarz

Panel 25: Regulatory Challenges of Nanotechnology

Located in Palm F

Chair: Cassandra Engeman, University of California, Santa Barbara, USA

"Nanotechnology Regulation as an Informational Challenge"

Milind Kandlikar, Christian Beaudrie, Terre Satterfield, and Barbara Herr Harthorn

"Regulatory Risk Judgment: How the EPA Confronts Scientific Uncertainty and the Challenges of Nanotechnology"

Joseph Conti and Sean Becker

"Nano-Expert Perceptions and Regulatory Challenges for Emerging Nanotechnologies"

Christian Beaudrie, Terre Satterfield, Milind Kandlikar, and Barbara Herr Harthorn

Program



(Wednesday continued)

10:00-10:30 a.m.

Break

10:30 a.m.-11:45 p.m.

Plenary IV - Shape-Shifting, Ancestor Plants & Low-Tech Rebels: What if Converging Technosciences had a Globalized Imagination?

Located in the Palm ABC

Chair: David Guston, Arizona State University, USA

Geri Augusto, Brown University, USA

Noon-1:15 p.m.

Poster Session

Located in the Palm Ballroom Foyer and Palm E

Please see page 15 for presenters, titles, and descriptions.

1:30-3:00 p.m.

Panel Session VI

Panel 26: Roundtable—What Does it Mean to Harm the Environment?

Located in Sand Lotus

Chairs: Fern Wickson, GenØk Centre for Biosafety, Norway

Anne Ingeborg Myhr, GenØk Centre for Biosafety, Norway

John Fortner, Washington University in St. Louis, USA

Panel 27: Roundtable—Public Engagement with Science in Informal Learning Environments

Located in Wind Flower

Chair: Larry Bell, Boston Museum of Science, USA

Elizabeth Kollmann, Kirsten Ellenbogen, Andrea Bandelli, and Heather Mayfield

Panel 28: How Green is Your Nano, I

Located in Palm D

Chair: Amy Wolfe, Oak Ridge National Laboratory, USA

“LCA, Nanotechnology, and Scale: Assessing the Promise of Nanomaterial-Enabled Energy Storage Technologies”

Ben Wender and Thomas Seager

“What is Nano Doing for Solar? A Report on Notes from the Field”

Chris Newfield and Daryl Boudreaux

“Regulation and the Global Nanotechnology Industrial Workplace”

Cassandra Engeman, Lyn Baumgartner, Patricia Holden, and Barbara Herr Harthorn

Panel 29: RELANS: Latin American Network on Nano and Society, I

Located in the Palm ABC

Chair: Noela Invernizzi, Universidade Federal do Paraná, Brazil

“The Path of Nanotechnologies in Mexico”

Edgar Zayago Lau and Guillermo Foladori

“Mexico-US Bilateral Scientific Collaboration on Nanotechnology”

Richard Appelbaum, Guillermo Foladori, Rachel Parker, and Edgar Zayago Lau

“The Chilean Nanotechnology Sector: Catching up or Falling Behind?”

Rodrigo Cortes-Lobos

(Wednesday continued)

**Panel 30: The Challenges of Equity, Equality, and Development
Located in Palm F**

Chair: Jameson Wetmore, Arizona State University, USA

“Equity, Equality and Responsibility”
Jameson Wetmore

“Equity, Equality, and Development: A Framework for Analyzing Nanotechnology Potentials”
Susan Cozzens

“Assessing South Africa's Nanotechnology Strategy: What Role for the Private Sector in Pro-Poor Innovation?”
Ogundiran Soumonni

“Nanotechnology in India: An Examination of the Productivity and Equitable Nature of their Research Program”
Thomas Woodson

3:00-3:30 p.m.

Break

3:30-5:00 p.m.

Panel Session VII

**Panel 31: How Green is your Nano, II
Located in Palm D**

Chair: Arnim Wiek, Arizona State University, USA

“Systemic Analysis of Nanoscale Science and Engineering Applications: Are They Emerging to Address Urban Sustainability Challenges?”
Arnim Wiek and Rider Foley

“How Green Is Nano?: Evidence from USPTO Green Patents”
Jose Lobo and Deborah Strumsky

“Does Nano Have a Green Thumb?”
Astrid Schwarz

**Panel 32: Upstream Engagement
Located in Wind Flower**

Chair: Eleonore Pauwels, Woodrow Wilson International Center for Scholars, USA

“How Do We Engage with People Who are Unengaged on Science and Technology Issues?”
Craig Cormick

“Nano is Like That and That and That...The Role of Analogical Discourse in Public Engagement with Nanotechnology”
Claudia Schwarz

“The Dutch Societal Dialogue: A Multilevel Analysis of Communication as Transaction in Nanotechnology”
Lotte Krabbenborg



(Wednesday continued)

“Empowerment and Social Learning: Long-Term Benefits of Citizen Deliberation about Nanotechnologies for Human Enhancement”
Michael Cobb and Gretchen Gano

Panel 33: Translational Research—Perspectives from the Humanities and Social Sciences, I

Located in **Sand Lotus**

Chair: Marianne Boenink, University of Twente, The Netherlands

“Three Concepts of Translational Research”
Anna Laura van der Laan and Marianne Boenink

“Why is the Linear Model So Persistent in the Framing of Medical Research?”
George Khushf

“Lost in Translation”
Thorsten Kohl and Alfred Nordmann

Panel 34: Mapping Responsible Innovation in Public and Private Sectors

Located in the **Palm E**

Chair: Robin Phelps, University of Colorado, Denver, USA

“Responsible Innovation: A Comparative Analysis of Nanotechnologies in Flanders and Wallonia, Belgium”
François Thoreau

“CSR or SSR – Does it Make a Difference if Responsibility is Corporate or Scientific?”
Cecilie Glerup and Maja Horst

“The Institutional Context for Responsible Innovation in the Public and Private Sectors: Intentional Tensions?”
Robin Phelps

“Room for Good Will? Examining Voluntary Programs for Nano-Oversight in the Context of Corporate Social Responsibility”
Jennifer Kuzma and Aliya Kuzhabekova

Panel 35: RELANS: Latin American Network on Nano and Society, II

Located in the **Palm ABC**

Chair: Noela Invernizzi, Universidade Federal do Paraná, Brazil

“Nanotechnology in Brazil: 10 Years after the Launching of the First Research Networks”
Noela Invernizzi, Cleci Korbés, and Marcos Paulo Fuck

“Nanotechnology and the Productive Sector in Venezuela”
María Sonsiré López, Anwar Hasmy, and Hebe Vessuri

“Nanotechnology and Lithium: A Window of Opportunity for Bolivia”
Roberto del Barco Gamarra and Guillermo Foladori

Panel 36: Anticipating Future Commercial Applications of Nanotechnology

Located in **Palm F**

Chair: Jan Youtie, Georgia Institute of Technology, USA

(Wednesday continued)

“Probing Early Patterns of Commercialization in Graphene”
Philip Shapira, Jan Youtie, and Sanjay Arora

“Forecasting Innovation Pathways: The Case of Nano-Enhanced Solar Cells”
Alan L. Porter, Ying Guo, Lu Huang, and Douglas K.R. Robinson

“Commercialization Patterns of Nanoscale Science and Engineering Centers: The Case of Polymer v. Clean-Room based Nanotechnology Applications”
Juan Rogers, Jan Youtie, and Luciano Kay

5:15-6:30 p.m.

Plenary V - Moving Pictures: Popular Perceptions of Nanotechnology and its Risks

Located in the ABC

Chair: Barbara Herr Harthorn, University of California, Santa Barbara, USA
Ann Bostrom, University of Washington, USA

6:45 p.m. - Close

S.NET Business Meeting and Closing of Silent Auction

Located in the Palm ABC

Chairs: Arie Rip, University of Twente, The Netherlands
Davis Baird, Clark University, USA

Thursday, November 10

8:30-10:00 a.m.

Panel Session VIII

Panel 37: Roundtable—The Science Policy and Regulatory Implications of Emerging Technologies

Located in Wind Flower

Chair: Jeff Morris, Environmental Protection Agency, USA

Joe Conti, Torsten Fleischer, Kathleen Eggleston, and Gary Marchant

Panel 38: GM and Nano's Publics?

Located in Palm D

Chair: Jennifer Kuzma, University of Minnesota, USA

“Hungry for Information: Exploring the Public's Perception of Nanotechnology in Food Using Conversational Settings”

Jonathan Brown, Jennifer Kuzma, and Andrew Merrill

“In Search of the Anti-Nanotech Movement. A Survey of Germany, the UK, and the International Arena”

Franz Seifert and Alexandra Plows

“Opening up ‘Lay Expertise’: The Role of Different Repertoires of Expertise in Public Engagement on Nanotechnology in the Food Domain”

Simone Schumann

Program



(Thursday continued)

“Ethical Issues Associated with Human Cloning Aspects of Biotechnology for Producing Tailored Babies”

Arvind Jain, Sanjeev Kumar Sharma, and Era Upadhyay

Panel 39: Nanotechnology in the Private Sector

Located in Palm E

Chair: Jan Youtie, Georgia Institute of Technology, USA

“Providing Information to the Emerging Nanomanufacturing Cohort”

Jessica Adamick

“The Essential Tension between Government, Industry, and University: A Case Study of a Nanotechnology Characterization Laboratory”

Sharon Ku

“‘Pro-Poor’ Nanotechnology Applications for Water, Energy and, Agro-Food: Characterizing Private Sector Research Using Publication Data”

Matthew Harsh, Thomas Woodson, Diran Soumonni, and Rodrigo Cortes-Lobos

“Nano Companies and Normative Products”

Vivian Weil

Panel 40: Exploring the Uncertain Technological Future: Lessons in Anticipatory Governance

Located in Palm F

Chair: David Sittenfeld, Boston Museum of Science, USA

“Capacity of Science Museums to Reach Key Audiences”

Larry Bell

“The National Citizens’ Technology Forum”

Gretchen Gano

“Media, Theater and Science Cafes: The Experience of NISE Net”

Brad Herring

“Future Scenarios of Nanotechnology”

Cynthia Selin

“Assessing Consumer Product Labeling: Collaborations with the Cambridge Public Health Department”

David Sittenfeld

10:00-10:30 a.m.

Break

10:30 a.m. - Noon

Panel Session IX

Panel 41: Language, Image, and Discourse

Located in Palm D

Chair: Davis Baird, Clark University, USA

“The Enclosed Language of Collaboration: Practices of ‘Sponsored Research’ Around Nano in the United States”

Elena Simakova

(Thursday continued)

“Nanotechnological Icons”
Alexei Grinbaum

“Boundaries of Science Communication in the Era of Nanotechnology: The Department of Energy and Discourses of Revolutionary Applied Science”
Matthew Eisler

Panel 42: What Do the Scientists Think?

Located in Palm E

Chair: Christian Beaudrie, University of British Columbia, Canada

“How Should We Regulate Nanotechnology? Perceptions of Leading USA Nano-scientists”
Youngjae Kim, Elizabeth Corley, and Dietram Scheufele

“Patents and Profs: How Do Researchers at Large Centers View IP Rules and Incentives?”
David Bjornstad

“Perception of Risk among Scientists Working with Nano”
Mikael Johansson

Panel 43: Novel Science

Located in Palm F

Chair: Colin Milburn, University of California, Davis, USA

“The Science Novel in Nanodiscourse”
Paul Youngman

“Touching Little Things: Probe Microscopy, and the Novel Life of Microbes”
Colin Milburn

“The Zeroth World of Legal Scholarship”
Michael Bennett

Panel 44: Roundtable—Finding Futures

Located in Wind Flower

Chair: Cynthia Selin, Arizona State University, USA

Gretchen Gano, Sarah Davies, Ângela Guimarães Pereira, and Cynthia Selin

12:15-1:00 p.m.

Plenary VI - Discussion on Imagining the Future of S.NET

Located in the Palm ABC

Chairs: Arie Rip, University of Twente, The Netherlands
Davis Baird, Clark University, USA

1:00 p.m.

Conference Departure

Additional Conference Activities

Poster Sessions

Wednesday, November, 9

Hotel Ballroom Foyer & Palm E

#1 Nanorobotics

Veena Khilnani and Tanuja Parulekar

#2 Visual Representation of Nanotechnology Embedded within Urban Context: Juxtaposing Techno-Optimism and Urban Sustainability Problems

Rider Foley and Evan Taylor

#3 USA Newspaper Coverage of Neuroscience Nanotechnology

Doo-Hun Choi, Anthony Dudo, and Dietram Scheufele

#4 Nanotechnology Developments and Policy Support Available in India

Uday Trivedi

#5 Nanotechnology and Talk: Differential Gains Model on an Emerging Technology

Doo-Hun Choi, Michael Cacciatore, Dietram Scheufele, and Elizabeth Corley

#6 Unpacking the Relationships between Religiosity, Deference to Scientific Authority, and Support for Nanotechnology: A Structural Equation Modeling Approach

Michael Cacciatore, Doo-Hun Choi, Elizabeth Corley, and Dietram Scheufele

#7 Evaluation of Packaging Barriers and Mechanical Properties of Plastic Materials made from Polypropylene Containing Nano Zinc Oxide

Jose Faria, Tatiana Sakamoto, and Wellington Castro

#8 Characterizing Nanotechnology's Implications for the City

Sanjay Arora, Jan Youtie, Philip Shapira, and Rider Foley

#9 Testing for Nano EHS

Convergence at the State Level

Stephen Carley, Alan Porter, and Li Tang

#10 Health Issues related to Nanomaterials

Arvind Jain, Sanjeev Kumar Sharma, and Shradha Jain

#11 What Have the USA and U.K. Media Reported about Nanotechnology Regulation?

Sharon Friedman and Brenda Egolf

#12 When Technology Fails Patients. Engaging with Stakeholders about the Case of the ASR Hip Joint – or – Nanoparticles as a Result of Medical Device Failure

Matthias Wienroth and Thomas Joyce

#13 Deliberating Geoengineering: Stratospheric Particle Injection for Climate Engineering (SPICE)

Karen Parkhill, Nick Pidgeon, Adam Corner, and Naomi Vaughan

#14 Indexing Expertise in a Deliberative Setting: A Comparison Study

Rachel Cranfill, Christine Shearer, Jennifer Rogers-Brown, and Barbara Herr Harthorn

#15 What is Nanoengineering and Who are its Practitioners? An Exploration of an Emerging Discipline through its Institutionalization and Pedagogy

Emily York

#16 Without the Guidance of Elites: Knowledge and Partisanship as Potential Influences on Public Opinion Toward Nanomedicine

Jayme Neiman

#17 Nanoscience and Nanotechnology in Venezuela

María Sonsiré López, Anwar Hasmy, and Hebe Vessuri

#18 Agenda Setting in New Policy Subsystems: The Case of USA Nanotechnology Policy

Derrick Anderson

#19 ZnO Nanowire Based Visible-Transparent UV Detectors on Flexible Substrates

Ebraheem Ali Azhar, Tej Belagodu, Sandwip Dey, and Hongbin Yulra

Demonstrations

#20 Demonstrations to Engage the Public in Nanotechnology

Rae Ostman, Brad Herring, Leigha Horton, Frank Kusiak, Stephanie Long, David Sittenfeld, and Greta Zenner Petersen

#21 NICE Database Demonstration

Evan Taylor

#22 Making Makers: New Tools and Transformative Organizations in DIY

Technoscience

Dave Conz

Films

#23 "Where Is Your Nano?"

Alex Gino and Cynthia Selin

#24 New Tools for Science Policy Introduction, Socio-Technical Integration Research (STIR), Public Value Mapping (PVM)

Erik Fisher

Field Trips

Monday, November, 7

Hotel Lobby

Conference attendees who pre-registered for the field trips will take a journey with their designated guides to explore and uncover commonplace and emerging technologies in Tempe's urban setting or walk through the Phoenix Gateway neighborhood and engage with community members to learn about the multiple environmental sustainability challenges residents there face.

The "Finding Futures" tour participants will meet in the Mission Palms Hotel & Resort, Dolores room at 1:00 p.m. for departure. This tour will entail a walk up Tempe's "A" Mountain and Mill Avenue. Tour participants will return to the Tempe Mission Palms Resort & Hotel at 3:30 p.m., so they may register for the S.NET conference and attend the opening presentation. A roundtable will be held Thursday, November 10th at 10:30 a.m. to offer tour participants an opportunity to reflect on their experience.

The "Finding Futures" tour guides will be Cynthia Selin, Gretchen Gano, Sarah Davies, Ângela Guimarães Pereira, and Merlyna Lim.

The "Pathways" walking audit participants will meet in the Mission Palms Hotel & Resort, Dolores room at 1:00 p.m. for departure. This walking audit will include a light rail ride to the Phoenix Gateway community, and a walk through the neighborhood to engage with community members. Tour participants will return to the Tempe Mission Palms Resort & Hotel at 2:45 p.m. where they will gather in the Dolores room for a 45-minute reflection.

The "Pathways" Walking Audit tour guides will be Arnim Wiek and Rider Foley.

Note to field trip participants: Please bring your cameras or smart phones with you to capture your thoughts, so you may later reflect on them. Water bottles will be provided by your field trip tour guides.

Silent Auction

Wednesday, November 9

Hotel Ballroom Foyer

During a unique demonstration that will begin Tuesday at 10:30 a.m., Dave Conz, an Assistant Research Professor with the Center for Nanotechnology in Society at Arizona State University will be transforming raw plastic filament into exotic works of art. Now is your chance to get your hands on one of these pieces. The auction will begin Wednesday, November 9. The silent auction winners will be announced at the S.NET business meeting held Wednesday evening at 6:30 p.m.

Students Night Out Tuesday & Wednesday, November 8, 9

Hanny's Restaurant & R la B la

Please join student activity coordinators Ben Wender, Rider Foley, and Shannon Conley after conference hours for a night on the town. Tuesday night, student participants will take a lightrail trip to downtown Phoenix where they will tour the area and dine at Hanny's Restaurant. The restaurant is located right off of the lightrail, and is known for its historic charm and delicious food. Wednesday night, student participants will take a stroll from the hotel to R la B la for drinks and lively discussion. R la B la is an Irish pub and restaurant located off of Mill Avenue. If you are interested in participating in either of these events, please meet in the hotel lobby after the last conference discussion.

Additional Conference Activities

Opening Reception

Monday, November, 7

ASU Tempe campus in Old Main Building

The opening reception will be held from 6:00 p.m.–7:00 p.m. Take a stroll to the ASU Tempe campus historical Old Main building, and enjoy a variety of heavy hors d'oeuvres and beverages. A cash bar will be available too.

Public Event

Monday, November, 7

ASU Tempe campus in Old Main Building, Carson Ballroom

Please join us after the opening reception for an informative and dynamic discussion on: Immigration and Emerging Technologies. Free admission. Open to the public.

Moderator

José Cárdenas

Senior Vice President and General Counsel, Arizona State University

Panel

Darren Petrucci

Director and Professor of Architecture, The Design School, Arizona State University

Ricardo Dominguez

Associate Professor, Visual Arts, University of California, San Diego

Simone Browne

Assistant Professor, Sociology, African, and African Diaspora Studies, University of Texas

Discussant

Doris Marie Provine

Professor, School of Justice and Social Inquiry, Arizona State University



Walking directions to Arizona State University, Old Main

Head east on E 5th St toward S Myrtle Ave, turn right onto S College Ave, continue onto S Cady Mall, destination will be on the left.

Monday Evening Speakers

Opening Remarks



Michael M. Crow is the President of Arizona State University, and CSPO Co-Founder. Michael Crow became the 16th president of Arizona State University in 2002. He is guiding the transformation of ASU into one of the nation's leading public metropolitan research universities, one that is directly engaged in the economic, social, and cultural vitality of its region. Under his direction, the university pursues teaching, research, and creative excellence focused on the major challenges and questions of our time, as well as those central to the building of a sustainable environment and economy for Arizona. He has committed the university to global engagement, and to setting a new standard for public service. Prior to joining ASU, he was executive vice provost of Columbia University, and professor of science and technology policy in the School of International and Public Affairs. While at Columbia, he co-founded the Center for Science, Policy, and Outcomes (CSPO), which in 2004 was reestablished at ASU as the Consortium for Science, Policy and Outcomes. A fellow of the National Academy of Public Administration, he is the author of books and articles relating to the analysis of research organizations, technology transfer, science and technology policy, and the practice and theory of public policy. <http://president.asu.edu/about/michaelcrow>

Immigration and Emerging Technologies Panel



Moderator

José Cárdenas is the Senior Vice President and General Counsel of Arizona State University. Before joining ASU in 2009, he practiced law for 30 years with the law firm of Lewis and Roca. While there, he was involved in litigation concerning English Language Learners. Mr. Cárdenas also has represented the Government of Mexico and Mexican government officials in proceedings in the United States. Mr. Cárdenas is a past president of the Arizona Mexico Commission, pursuant to appointments by three Arizona Governors. He was a member of the U.S. Delegation of the NAFTA Advisory Committee on Private Commercial Disputes and he also served as a member of the Arizona Sonora Judicial Cooperation Project. In 2000, Mr. Cárdenas received the Mexican government's Ohtli award given to USA residents of Mexican descent in recognition of their service to Mexican communities in the United States.

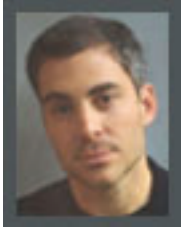


Discussant

Doris Marie Provine is a professor of Justice Studies at Arizona State University. She came to ASU in 2001 after a long tenure at Syracuse University in order to direct the School of Justice and Social Inquiry. She also has served in Washington, first as a Judicial Fellow for the Federal Judicial Center, and later as director of the Law and Social Science Program at the National Science Foundation. Dr. Provine has a law degree and a Ph.D. in political science from Cornell University. Her research focuses on law, courts, and inequality. Her most recent book is *Unequal Under Law: Race and the War on Drugs* (2007, University of Chicago Press). Her current work focuses on immigration policy, particularly issues surrounding unauthorized immigration. With support from the Fulbright Foundation (2007-2008), she has investigated differences in how national governments engage local governments in the enforcement of immigration laws, comparing Canadian, USA and Mexican approaches from a local perspective. She is principal investigator of a NSF-funded study of how local law enforcement is responding to the federal invitation to become more involved in apprehending immigrants without documentation.

Monday Evening Speakers

Immigration and Emerging Technologies Panel



Darren Petrucci is an Architect and Director of The Design School at Arizona State University where he also runs his applied research lab: SCAPE (Systems Components Architectural Products + Environments). He is the founder and principal of A-I-R [Architecture-Infrastructure-Research] Inc. His design and research focuses on what he calls “Amenity Infrastructure”, which develops new public/private urban infrastructures that facilitate multiple scales of public use within the contemporary city. He is a recipient of the New York Architecture League’s “Emerging Voices” award, the winner of a Progressive Architecture Award, a Record House Award, and two NCARB Prizes for excellence in teaching and practice. His work has been published in *Architectural Record*, *Boston Home*, *Spaces* (UK), *KLUS* (Serbia),

Metropolis Magazine, *Places Journal*, *Architecture Magazine*, *a+t Architecture and Technology*, *Metro Magazine*, *Sprawl and Public Space* published by the *National Endowment for the Arts with Princeton Architectural Press*, *Re-Envisioning Landscape/Architecture*. Actar Press, *Phoenix: 21st Century City*, *United Kingdom*, *Vernacular Architecture and Regional Design*, *Architectural Press*. His work has been exhibited in Arizona, New York, and Spain.



Ricardo Dominguez is co-founder of The Electronic Disturbance Theater (EDT), a group that in 1998, developed Virtual-Sit-In technologies in solidarity with the Zapatista communities in Chiapas, Mexico. His most recent project is the Transborder Immigrant Tool—a GPS cellphone safety net tool used for crossing the Mexico/USA border. The project has won several awards, including a 2008 Transnational Communities Award and 2 Transborder Awards from the Center for Humanities, University of California, San Diego. In 2010, the tool was exhibited in the California Biennial, Orange County Museum of Art, and the Toronto Free Gallery in Canada. Mr. Dominguez is an Associate Professor in the Visual Arts Department at the University of California, San Diego. He is a Hellman Fellow, and Principal

Investigator at the California Institute for Telecommunications and Information Technology. He is the co-founder of an art project known as particle group—an art project about nano-toxicology entitled *Particles of Interest: Tales of the Matter Market*. The art project has been presented in Berlin (2007), the San Diego Museum of Art (2008), *Oi Futuro*, and *FILE* festivals in Brazil (2008), CAL NanoSystems Institute, UCLA (2009), *Medialab-Prado*, Madrid (2009), and *Nanosferica*, NYU (2010).



Simone Browne is Assistant Professor in the departments of Sociology, African, and African Diaspora Studies at the University of Texas, Austin. She teaches and researches surveillance studies, biometrics, airport protocol, popular culture, and black diaspora studies. Her book-length manuscript in preparation, *Dark Matters: Surveillance, Technology, and Race*, examines surveillance with a focus on biometrics, airports and borders, slavery, black mobilities, and creative texts. Dr. Browne is co-editing with Dr. Ben Carrington, a special issue of *Qualitative Sociology* on Obama and the New Politics of Race.

Plenary Speakers



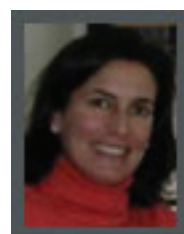
Geri Augusto, a Watson Fellow in International Studies, is an Adjunct Associate Professor of Public Policy and member of the STS Program steering committee at Brown University. She also is an honorary research associate at the Centre for African Studies in the University of Cape Town, an associate fellow at the Centre for Caribbean Thought in the University of the West Indies, and an advisor for the Steve Biko Institute in Salvador da Bahia. Her main current interests are how knowledge is created both in practice (especially of science and technology) and through social struggle; what a more globalized STS might look like; and how to create cognitive justice in theory and practice.

Plenary IV speaker on **Shape-Shifting, Ancestor Plants & Low-Tech Rebels: What if Converging Technosciences had a Globalized Imagination?** Wednesday, November 9 from 10:30-11:45 a.m. Located in the Palm ABC.



Ann Bostrom, Professor of Public Affairs in the Daniel J. Evans School of Public Affairs at the University of Washington. Bostrom researches how people understand and make decisions about risks. She is president-elect of the Society for Risk Analysis.

Plenary V speaker on **Moving Pictures: Popular Perceptions of Nanotechnology and its Risks.** Wednesday, November 9 from 5:15-6:30 p.m. Located in the Palm ABC.



Noela Invernizzi, an Anthropologist with a PhD in Science and Technology Policy, is a faculty member at the Federal University of Parana, Brazil. For several years, Invernizzi has researched the impacts of industrial innovation on workforce skills and employment conditions. Her current research addresses the social implications of nanotechnology for development in Latin America with a particular focus on labor, poverty, and inequality issues.

Plenary II speaker on **Nanotechnology and Labor: Trends in Industry and Union's Perspectives.** Tuesday, November 8 from 12:15-1:30 p.m. Located in the Palm ABC.



Nicholas Pidgeon, is a Professor of Environmental Psychology at Cardiff University, where he currently directs the interdisciplinary Understanding Risk Research Group, which looks at how public attitudes, trust, and institutional responses drive environmental and technological risk controversies, including those of nuclear power, climate change, and nanotechnologies.

Plenary I speaker on **The Curious Case of SPICE: Deliberating Geoengineering as Anticipatory Research Governance,** Monday, November 7 from 4:20-5:45 p.m. Located in the Palm ABDE.



Steve Rayner, is the Director of the Institute for Science, Innovation, and Society. He is a James Martin Professor of Science and Civilization with the Saïd Business School at the University of Oxford, and an Honorary Professor of Climate Change and Society at the University of Copenhagen. Rayner's research interests include the relationship between nature and society as mediated by science and technology; management of environmental and technological risk; climate change and sustainable development; and governance of emerging technologies.

Plenary I speaker on **"Control Dilemmas: Great and Small".** Monday, November 7 from 4:20-5:45 p.m. Located in the Palm ABDE.

Executive Committee



Arie Rip, President

Professor, Philosophy of Science and Technology in the School of Management and Governance, University of Twente, The Netherlands



Davis Baird, President-Elect

Interim Treasurer, S.NET; Provost; Vice President, Academic Affairs; Professor, Philosophy, Clark University, USA



Larry Bell

Sr. Vice President for Strategic Initiatives Museum of Science, Boston; Director, Nanoscale Informal Science Education Network, USA



Diana Bowman

Assistant Professor, University of Michigan, School of Public Health, USA



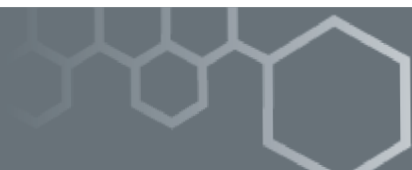
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Barbara Herr Harthorn

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Alfred Nordmann

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Research Team Leader, RTTA 1, Center for Nanotechnology in Society; Professor of Public Policy, Georgia Institute of Technology, USA



John Weckert

Founder and Editor-in-Chief, Journal *Nanoethics: Ethics for Technologies that Converge at the Nanoscale*; Representative, Technical Committee on Computers and Society, Australian Computer Society, Australia



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Local Attractions

Tempe is the seventh largest city in Arizona, and is located in the heart of the Valley of the Sun. The downtown area is bound by Arizona State University to the south and Tempe Town Lake to the north, with the vibrant Mill Avenue district in the middle. The city of Tempe was formed in 1879 as a combination of the two settlements of Hayden's Ferry and San Pablo and named from the Vale of Tempe in Ancient Greece. The influences of Native American culture, Hispanic culture, and entrepreneurial settlers, with the unique blend of historic and modern, are still seen today in Tempe.

Things to do at ASU

Arboretum at ASU

All of Tempe Campus, (480) 965-8137

ASU's Arboretum is Arizona's largest public urban arboretum. Walking through the Tempe campus, one can view collections of palms, deciduous trees, fruit-bearing trees, conifers, evergreen trees, desert trees, cacti, succulents and specialty garden displays.

1. Art Museum/Ceramics Research Center Nelson Fine Arts Center

10th Street and Myrtle Avenue, (480) 965-2787

Cited in Art in America as "the single most impressive venue for contemporary art in Arizona," the ASU Art Museum explores art and its impact on individuals and society. It houses permanent collections of 19th and 20th century American paintings and sculptures, Latin American art, and it has an emphasis on contemporary art including new media. It is home to the Ceramics Research Center, a collection of more than 4,000 pieces. Admission is free. Open 11 am-5 pm, Tuesday-Saturday.

2. Center for Meteorite Studies: Bateman Physical Sciences Center C-139

Palm Walk and University Drive, (480) 965-6511

The Center houses the world's largest university-based meteorite collection, with specimens from over 1,500 separate fall events. Open 9am-5pm, Monday-Friday.

3. Gammage Auditorium

Gammage Parkway and Forest Avenue, (480) 965-3434

ASU Gammage is among the largest university-based venues for performing arts in the world. Performances include nationally touring Broadway hits, celebrity acts and multicultural programs. This historic hall was designed by Frank Lloyd Wright.

4. Life Sciences Center Living Collection

LSA Building, Tyler Mall and Palm Walk, (480) 965-3571

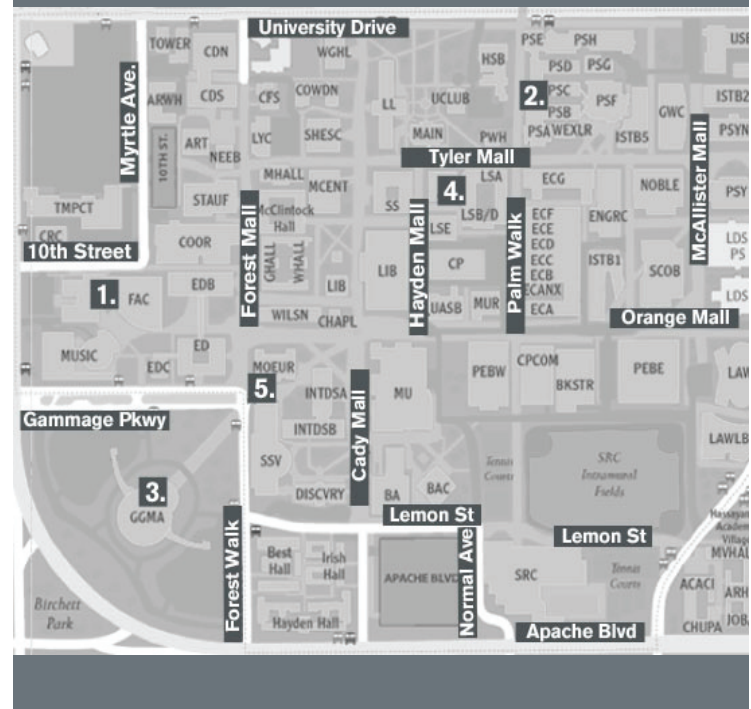
This collection is a unique reptile display with the only complete living collection of all 18 sub-species of native Arizona rattlesnakes. Open 8am-5pm, Monday-Friday.

5. Mars Space Flight Facility

Moeur Building, Room 131, Forest Mall and Gammage Parkway, (480) 965-1790

The facility supports the Thermal Emission Imaging System experiment that was sent aboard the Mars Odyssey spacecraft. The Mars facility has a visitor area with displays about Mars and a television tuned to NASA TV. Open 9am-5pm, Monday-Friday.

Map it here.



Or online at: www.asu/maps.edu

Things to do locally

Arizona Historical Society Museum at Papago Park

1300 N. College Ave., Tempe, AZ 85281, (480) 929-0292

Contemporary history introduces visitors to the dramatic development of the Valley. It features interactive exhibits, guided tours and a research library. Open 10am-4pm, Tuesday-Saturday; 12 Noon-4pm, Sunday.

Desert Botanical Garden

1201 N. Galvin Pkwy., Phoenix, AZ 85008, (480) 941-1225

This living museum features 50,000 desert plants from around the world. Enjoy tours, concerts, seasonal exhibits, special events and family activities. Open 7am-8pm daily.

Hayden Butte (“A” Mountain)

100 S. Mill Avenue

Giving a gorgeous view over Tempe, Tempe Town Lake and the surrounding area, the trails of “A” Mountain provide hiking in the heart of the city. Part of the Hayden Butte Preserve, it is also home to petroglyphs from the Hohokam people who inhabited the area from ~500 AD – 1450AD.

Heard Museum

2301 N. Central Avenue Phoenix, Arizona 85004, (602) 252-8848

Explore the museum’s rich history as one of the Phoenix area’s first cultural attractions, and see how the museum has grown to be one of the world’s finest destinations for learning about American Indian arts and cultures.

Easily accessible by light rail. Open 9:30am-5pm, Monday-Saturday; 11am-5pm, Sunday.

Mill Avenue District

On Mill Avenue, between University Drive and Rio Salado Parkway

The Mill Avenue District is the heart of downtown Tempe. It is an original walkable urban downtown district with more than 100 restaurants, retailers and bars.

Papago Park

1000 N. College Ave., Tempe, AZ 85281, (480) 350-5200

Enjoy this 296-acre Tempe park with softball fields, lagoon, picnic ramadas, hiking and biking trails, archeological site, natural desert areas, and trail rides.

Petersen House Museum

1414 W. Southern Ave., Tempe, AZ 85282, (480) 350-5151

Experience a restored Queen Anne Victorian home built in 1892 by one of Tempe’s earliest settlers. Open 10am-2pm Tuesday, Wednesday, Thursday, and Saturday. Free admission; donations accepted.

Phoenix Art Museum

1625 N. Central Avenue, Phoenix, AZ 85004, (602) 257-1222

Houses a collection of more than 18,000 works of American, Asian, European, Latin American, Western American, modern and contemporary art, and fashion design. Open 10am-5pm, Thursday-Saturday; 12 Noon-5pm Sunday; 10am-9pm, Wednesday; closed Monday and Tuesday.

Phoenix Zoo

455 N. Galvin Parkway, Phoenix, AZ 85008, (602) 273-1341

The Phoenix Zoo is one of the nation’s leading non-profit zoological parks and home to more than 1,200 animals. Open 9am-5pm daily, with 2.5 miles of bike-friendly paths.

Pueblo Grande Museum and Archeological Park

4619 E. Washington St., Phoenix, AZ 85034, (877) 706-4408

Experience a prehistoric Hohokam ruin and full-size replicated dwellings. Fascinating exhibits feature the ancient Hohokam. Museum Store with authentic Indian arts. Located by the 44th Street Light Rail station.

Rawhide Western Town & Steakhouse

5700 W. North Loop Rd., Chandler, AZ 85226, (800) 527-1880

Rawhide, winner of Arizona’s Best Western Experience, offers guests renowned dining, unique shops, a variety of attractions and memorable meeting spaces. It is a replica of a western town, complete with stagecoach rides and live stunt shows.

Tempe Marketplace

2000 E. Rio Salado Parkway, Tempe, AZ 85281, (602) 553-2663

With 1.3 million square feet of retail space, featuring dramatic light and laser elements, outdoor fireplaces and unique water features, Tempe Marketplace delivers an interactive shopping, dining and entertainment experience in a vibrant, high-energy outdoor setting.

Tempe Town Lake and Tempe Beach Park

80 W. Rio Salado Parkway, Tempe, AZ 85281, (480) 350-8625

Tempe Town Lake, located adjacent to the Mill Avenue District, provides a two-mile recreational haven for kayaking, sailing, rowing, jogging, skating or picnicking. The heart of Tempe Town Lake is historic Tempe Beach Park. The park provides five miles of pathways, with bike and segway rental available.

Musical Instrument Museum

4725 East Mayo Boulevard Phoenix, AZ 85050, (480)478-6000

Tour the Musical Instrument Museum’s gallery space and enjoy a world of instruments and culture. The museum offers a shared experience of musical instrument history throughout the world. The space is bright, open, and provides guests with a warm and comfortable environment.

Restaurant Guide

Fine Dining

Caffe Boa Bistro and Wine Bar
398 S Mill Ave

Canteen Modern Tequila Bar
640 S Mill Ave., Suite 110

House of Tricks Restaurant
114 E 7th St

La Bocca Urban Pizzeria + Wine Bar
699 S. Mill Avenue

Monti's La Casa Vieja
100 S Mill Ave

P.F. Chang's China Bistro
740 S Mill Ave

RA Sushi-Bar-Restaurant
411 S Mill Ave

Z-Tejas Southwestern Grill
20 W 6th St

Bar & Grills

Antars Sports Bistro
699 S Mill Ave

Bison Witches Bar and Deli
21 E 6th St

Blondies Sports Bar & Grill
501 S. Mill Avenue

Canteen Modern Tequila Bar
640 S Mill Ave., Suite 110

Chronic Cantina
15 E 6th St

Chuck Box
202 E University Dr

Crave Cafe & Lounge
505 S Mill Ave

Dave's Electric Brew Pub
502 S College Ave

Fat Tuesday Bar
680 S Mill Ave

Hooters of Tempe
501 S Mill Ave

Margarita Rocks
410 S Mill Ave

Paradise Hawaiian BBQ
580 S College Ave

Robbie Fox's Public House
640 S Mill Ave

Rúla Búla Irish Pub & Restaurant
401 S Mill Ave

The Sail Inn Bar and Grill
26 S Farmer Ave

The Tavern on Mill
404 S Mill Ave

Vintage Lounge & Grill
414 S Mill Ave

Zuma Grill
605 S Mill Ave

Deli & Quick Eats

Panda Express
777 S College Ave #107

Campus Corner #2
603 S Mill Ave

Capriotti's Sandwich Shop
100 W University Dr

City Market & Deli
74 E Rio Salado Pkwy

Corleone's Authentic Philly Steaks
411 S Mill Ave

CUPZ Coffee
777 S College Ave

Cutie's Hot Dogs
5 E 6th St

Diverti Bar & Grill
4 E University

Fatburger
414 S Mill Ave

In Season Deli
414 S Mill Ave

Jack-in-the-Box
721 S Mill Ave

Jimmy John's Gourmet Sandwiches
680 S Mill Ave

Med Fresh Grill
414 S Mill Ave

MoJo Frozen Yogurt
350 S Mill Ave

The Munchies Cafe
11 E. 6th Street

Pita Pit
122 E University Dr

Port of Subs
777 S College Ave

Quizno's
100 W University Dr

Romancing the Bean
80 E Rio Salado Pkwy

Salam's Market & Deli
616 S Forest Dr

Silver Mine Subs
414 S Mill Ave

Slices Pizza
11 E 6th St

Starbucks Coffee
420 S Mill Ave

Subway
706 S College Ave

Thirsty Dog 2 Go
15 W 5th St

Breakfast/Brunch/Coffee

Caffe Boa Bistro and Wine Bar
398 S Mill Ave

City Market & Deli
74 E Rio Salado Pkwy

CUPZ Coffee
777 S College Ave

Java 101
222 E University Dr

Mission Grille
60 E 5th St

Ncounter
310 S Mill Ave

Romancing the Bean
80 E Rio Salado Pkwy

Starbucks Coffee
420 S Mill Ave

Thirsty Dog 2 Go
15 W 5th St

American

Bison Witches Bar and Deli
21 E 6th St

Canteen Modern Tequila Bar
640 S Mill Ave., Suite 110

Chili's
801 S Mill Ave

Chuck Box
202 E University Dr

Corleone's Authentic Philly Steaks
411 S Mill Ave

Fatburger
414 S Mill Ave

Five Guys Burgers & Fries
680 S Mill Ave

Gordon Biersch Brewery
420 S Mill Ave

House of Tricks Restaurant
114 E 7th St

In Season Deli
414 S Mill Ave

Jack-in-the-Box
721 S Mill Ave

Mission Grille
60 E 5th St

Monti's La Casa Vieja
100 S Mill Ave

Ncounter
310 S Mill Ave

Port of Subs
777 S College Ave

Slices Pizza
11 E 6th St

Smashburger
777 S College Ave

The Tavern on Mill
404 S Mill Ave

Thirsty Dog 2 Go
15 W 5th St

Asian

Panda Express
777 S College Ave #107

Grilled Ave Teriyaki House
705 S Forest Ave

P.F. Chang's China Bistro
740 S Mill Ave

RA Sushi-Bar-Restaurant
411 S Mill Ave

Irish

Robbie Fox's Public House
640 S Mill Ave

Rula Bula Irish Pub & Restaurant
401 S Mill Ave

Italian

Caffe Boa Bistro and Wine Bar
398 S Mill Ave

La Bocca Urban Pizzeria + Wine Bar
699 S. Mill Avenue

Mellow Mushroom
740 S Mill Ave

Mediterranean/Greek

Crave Cafe & Lounge
505 S Mill Ave

Med Fresh Grill
414 S Mill Ave

The Munchies Cafe
11 E. 6th Street

My Big Fat Greek Restaurant
525 S Mill Ave

Phoenicia Cafe
616 S Forest Ave

Pita Pit
122 E University Dr

Mexican/Southwestern

Chronic Cantina
15 E 6th St

Fuzzy's Taco Shop
414 S Mill Ave

Hippies Cove
414 S Mill Ave

Macayo's Depot Cantina
300 S Ash Ave

Monti's La Casa Vieja
100 S Mill Ave

Paletas Betty
425 S Mill Ave

Restaurant Mexico
423 S Mill Ave

Z-Tejas Southwestern Grill
20 W 6th St

Desserts

Candy Addict
414 S Mill Ave

Cookiez On Mill
514 S. Mill Avenue

MoJo Frozen Yogurt
350 S Mill Ave

Ncounter
310 S Mill Ave

Paletas Betty
425 S Mill Ave

Poppa Maize Gourmet Popcorn
730 S Mill Ave

Red Mango Yogurt & Smoothies
420 S Mill Ave

Sparky's Old Town Creamery
510 S Mill Ave

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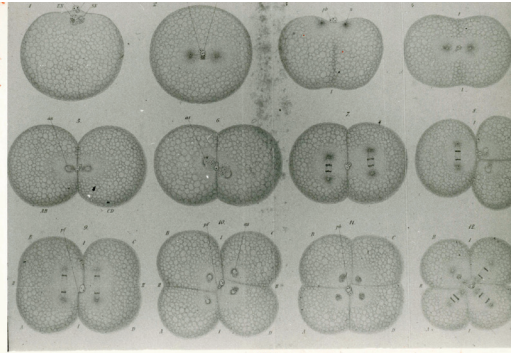
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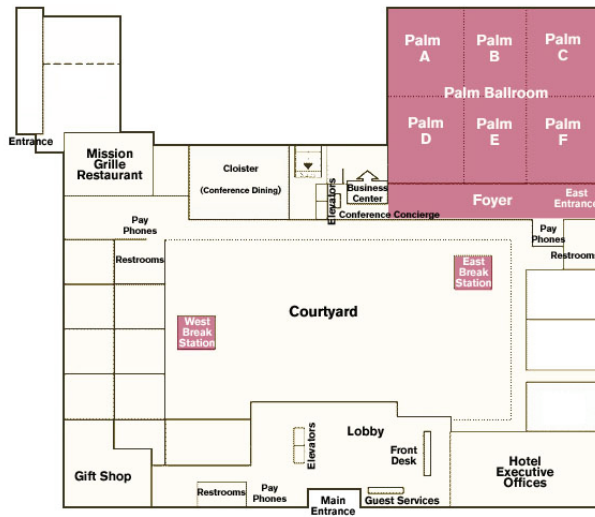
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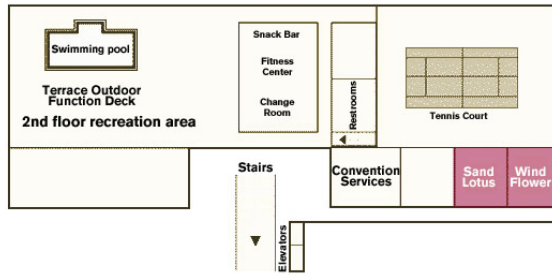
Tempe Mission Palms Hotel Map

The maroon areas indicate rooms where panels, poster sessions, and breakrooms can be located.

First Floor



Second Floor



Walking directions to Arizona State University, Old Main

Head east on E 5th St toward S Myrtle Ave, turn right onto S College Ave, continue onto S Cady Mall, destination will be on the left.



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