

CONTACT DETAILS

NAME: Andrew David Maynard
 Associate Dean, College of Global Futures, and Professor, School for the Future of Innovation in Society, Arizona State University
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LINKEDIN: <https://www.linkedin.com/in/andrewdmaynard/>

EDUCATION

PhD: University of Cambridge, U.K. 1989 – 1992
 Cavendish Laboratory, Microstructural Physics Department. Ph.D. (Aerosol Physics).
Thesis: Ultrafine aerosol particle collection and analysis (1993)
BSc: University of Birmingham, U.K. 1984 - 1987
 Physics. B.Sc. (Hons): Iii

EMPLOYMENT

Arizona State University 8/3/15 - Present
 Associate Dean of Curricula and Student Success, College of Global Futures 7/15/20 – Present
 Associate Director of Faculty, School for the Future of Innovation in Society 8/1/19 – 7/14/20
 Professor, School for the Future of Innovation in Society 8/3/15 – Present
 Director, Risk Innovation Nexus 8/1/18 - Present
 Director, Risk Innovation Lab 8/3/15 – Present
 Chair, Master of Science & Technology Policy program 1/1/16 – 7/14/20
University of Michigan 4/1/10 – 7/30/15
 Professor, Environmental Health Sciences, School of Public Health 9/1/10 – 7/30/15
 Director, University of Michigan Risk Science Center 4/1/10 – 7/30/15
 Chair, Department of Environmental Health Sciences 6/1/12 – 11/30/14
 NSF International Chair of Environmental Health Sciences 1/1/13 – 11/30/14
 Charles and Rita Gelman Professor of Risk Science 9/1/10 - 12/31/12
Woodrow Wilson International Center for Scholars 8/15/05 – 3/31/10
 Chief Science Advisor, Project on Emerging Nanotechnologies
 Science Advisor, Synthetic Biology Project
National Institute for Occupational Safety and Health 1/18/00 – 7/8/05
 Team Leader – Aerosols Research Team (GS15) 1/1/04 – 7/8/05
 Senior Service Fellow (GS14). (2000 – 2004) 1/18/00 – 1/1/04
Health and Safety Executive, U.K. 9/21/92 – 1/17/00
 Head, Exposure Control Section, Health and Safety Laboratory 9/1/98 – 1/17/00
 Senior Scientific Officer (1994 – 1998) 9/1/94 – 9/1/98
 Higher Scientific Officer (1992 – 1994) 9/21/92 – 9/1/94

Severn Trent Water Ltd., U.K. 1/10/87 – 1/10/89
Management Trainee.

HONORS AND AWARDS

American Association for the Advancement of Science 2020
Lifetime Elected Fellow

Society of Toxicology 2015
Public Communications Award

National Institute for Occupational Safety and Health 2009
Alice Hamilton Award, Biological Sciences Category Winner (co-author)

National Institute for Occupational Safety and Health 2006
Alice Hamilton Award, Biological Sciences Category Winner (co-author)

National Institute for Occupational Safety and Health 2005
Alice Hamilton Award, Biological Sciences Honorable Mention (co-author)

National Institute for Occupational Safety and Health 2004
Alice Hamilton Award, Engineering & Physical Sciences
Honorable Mention (co-author)

National Institute for Occupational Safety and Health 2003
Alice Hamilton Award, Engineering & Physical Sciences
Honorable Mention (co-author)

ACADEMIC AFFILIATIONS

Affiliate Faculty Member 2022 - Present
School of Sustainable Engineering and the Built Environment,
Ira A. Fulton Schools of Engineering, ASU

Affiliate Faculty Member 2022 - Present
Interplanetary Initiative, ASU

Senior Global Futures Scholar 2021 - Present
Julie Ann Wrigley Global Institute of Sustainability and Innovation, ASU

Global Sports Scholar 2020 - Present
Global Sports Institute, ASU

Senior Sustainability Scholar 2016 - 2021
Julie Ann Wrigley Global Institute of Sustainability, ASU

Faculty Fellow 2015 - Present
Center for Law, Science & Innovation, ASU

Affiliate Faculty Member 2018 - Present
Global Security Initiative Center for Human, Artificial Intelligence,
and Robot Teaming (CHART), ASU

EXECUTIVE & ADVISORY POSITIONS

Canadian Institute for Advanced Research 2017 - Present

Member of the President's Advisory Committee	
Institute for Advancing Food and Nutrition Science IAFNS Board of Trustees (formerly ILSI NA) Co-chair (2021-2023)	2021 - Present
International Life Science Institute North America ILSI North America Board of Trustees (2012 – 2021) Vice-chair (2019-2021)	2012 - 2021
American Association for the Advancement of Science AAAS Early Career Award for Public Engagement with Science Selection Committee	2015 - 2020
World Economic Forum Committee on top ten emerging technologies (2012 – Present) Global Futures Council on Agile Governance (2017 – 2019) Council on the Future of Technology, Values and Policy (2016 – 2017) Global Agenda Council on Emerging Technologies. (2008 – 2014) Chair of the World Economic Forum Global Agenda Council on Emerging Technologies. (2010 – 2011) Co-chair, World Economic Forum Global Agenda Council on Nanotechnology (2014 – 2016). Metacouncil on Emerging Technologies (2014 – 2016) Advisory Committee, World Economic Forum Technology Pioneers (2012 – 2020)	2008 - Present
Nature Nanotechnology Advisory Panel Advisory group to the editor on developing content on the relationship between technology and society	2017 - Present
United Nations Expert Group on Exponential Technological Change New group addressing exponential technological change, automation, and policy implications for sustainable development	2016 - 2017
National Academies of Sciences Committees National Academies of Science, Engineering and Medicine Committee on Emerging Areas of Science, Engineering, and Medicine for the Courts: Identifying Chapters for a Fourth Edition of The Reference Manual on Scientific Evidence – A Workshop. (2020 – 2021) National Academies of Science Planning Committee on New Technologies and Engagement Approaches to Enhance Research on the Communication about Individual Environmental Health Data. (2016) National Academies of Science Committee on the Science of Science Communication (2015 – 2016) National Academies of Science Committee to develop a research strategy for environmental, health, and safety aspects of engineered nanomaterials (2010 – 2013) National Academies of Science review panel for the National Nanotechnology Initiative Strategy for Nanotechnology Environmental Health and Safety Research (2008)	2008 - 2021
Keep on Questioning (I'm A Scientist USA) Board of Advisors	2015 - 2017
RELATE (Science Communication) Faculty Advisor	2015 - 2019
Center for Policy on Emerging Technologies Senior Fellow	2012 – 2018

Dow Distinguished Faculty Fellows Member, University of Michigan Dow Distinguished Faculty Fellows	2013 - 2015
Center for Nanotechnology in Society, ASU Member, Board of Visitors	2012 - 2015
Graham Sustainability Institute, University of Michigan Member, Executive Committee	2012 - 2015
Center for the Environmental Implications of Nanotechnology Chair, External Advisory Board	2009 – 2016
Nanoscale Informal Science Education Network Advisory board member	2009 – 2015
Environmental Protection Agency Chair, External Peer Review of the U.S. Environmental Protection Agency Draft Nanomaterial Research Strategy	2008
Environmental Protection Agency Panel member, Public Meeting on Risk Management Practices for the U.S. Nanoscale Materials Stewardship Program	2008
Council of Canadian Academies Expert Panel on Nanotechnology Assessment	2007
President’s Council of Advisors on Science and Technology Member of the Nanotechnology Working Group	2010 - 2012
President’s Council of Advisors on Science and Technology Member of the Nanotechnology Technical Advisory Group	2006 - 2009
Chemical & Engineering News Advisory Board member	2008 - 2011
Organization for Economic Cooperation and Development Working Party on Manufactured Nanomaterials. Project on Emerging Nanotechnologies representative.	2005 - 2007
International Council On Nanotechnology (ICON) Executive Committee member	2004 - 2011
International Life Sciences Institute Member of the ILSI Health and Environmental Sciences Institute Nanomaterial Safety Subcommittee Project Steering Team.	2004 – 2010

EDITORIAL BOARDS

Annals of Work Exposure and Health International Advisory Board	2017 - Present
Journal of Responsible Innovation Member, Board of Editors	2013 - Present
Annals of Occupational Hygiene International Advisory Board	2006 - 2016
Nano Today Member of the editorial board	2006 - 2009

Journal of Nanoparticle Research
Member of the editorial board

2006 - 2012

Nanotoxicology
Member of the editorial board

2006 - Present

GOVERNMENT TESTIMONY AND BRIEFINGS

Formal testimony and briefings include:

President's Council on Science and Technology (PCAST)

Private Meeting on Nanotechnology. Invited briefing. *November 1 2011.*

Wisconsin Assembly Committee on Public Health

Presentation at an information hearing on nanotechnology, potential impacts and regulation. *October 2009*

National Organics Standards Board Materials Committee

Comments on Proposed Recommendations for Nanotechnology in Organic Production and Processing *May 2009.*

U.K. House of Lords Select Committee on Science and Technology.

Written evidence to the Inquiry into the use of nanotechnology in the food sector. *March 2009.*

Food and Drug Administration.

Public meeting on FDA-regulated products that may contain nanoscale materials. *September 8 2008.*

U.S. House of Representatives Committee on Science and Technology.

Hearing on The National Nanotechnology Initiative Amendments Act of 2008. Invited testimony. *April 16 2008.*

U.S. House of Representatives Committee on Science and Technology, Subcommittee on Research and Science Education.

Hearing on Research on Environmental and Safety Impacts of Nanotechnology: Current Status of Planning and Implementation under the National nanotechnology Initiative. Invited testimony. *October 31 2007.*

U.S. House of Representatives Committee on Science.

Hearing on Research on Environmental and Safety Impacts of Nanotechnology: What Are the Federal Agencies Doing? Invited testimony. *September 21 2006.*

President's Council on Science and Technology (PCAST)

Public Meeting on Nanotechnology. Invited briefing. *June 25 2007.*

President's Council on Bioethics.

Nanotechnology. Invited briefing. *June 29 2007.*

Nanoscale Science, Engineering and Technology Subcommittee, National Science and Technology Council, Committee on Technology;

Research Needs and Priorities Related to the Environmental, Health, and Safety Aspects of Engineered Nanoscale Materials: Public Meeting. Submitted testimony. *January 4 2007.*

Food and Drug Administration (FDA)

Consideration of FDA-Regulated Products That May Contain Nanoscale Materials; Public Meeting. Submitted testimony. *September 9 2008.*

European Food Safety Authority

Written comments on nanomaterials and nanotechnology and food and feeds. *March 2008.*

Congressional Nanotechnology Caucus.

General Briefing on Nanotechnology. Chair. *March 3 2007.*

Congressional Nanotechnology Caucus.

Meeting on Nanotechnology and Environment, Health and Safety. Invited briefing. *November 19 2007*

OTHER COMMITTEES

NSET NIOSH representative on the Nanomaterial Science, Engineering and Technology (NSET) subcommittee of the National Science and Technology Council (NSTC).	2004 - 2005
NEHI Co-chair of the Nanotechnology Environmental and Health Impacts (NEHI) interagency working group.	2004 - 2005
International Standards Organization Convener of the International Standards Organization working group TC146/SC2/WG1: Size-selective aerosol sampling and analysis.	2001 - 2005

COURSES TAUGHT

The Moviegoer's Guide to the Future (FIS 394/FIS 338) 3 Credit Hours. Arizona State University School for the Future of Innovation in Society	2018 – Present
Intro to Western Theory & Response (HSD 591) 2 Credit Hours. Co-taught Arizona State University School for the Future of Innovation in Society	2019 – 2020
From Reanimation to Robots: Making Sense of Emerging Technologies OLLI 4-session course Arizona State University Osha Life Long Learning Institute	2019 – 2020
Research & Development Administration (HSD 598) 3 Credit Hours. Co-taught. Arizona State University School for the Future of Innovation in Society	2017 – 2017
Risk and the Future (FIS 332) 3 Credit Hours Arizona State University School for the Future of Innovation in Society	2016 – 2018
Advanced Science and Technology Policy (HSD 502) 3 Credit Hours Arizona State University School for the Future of Innovation in Society	2015 – 2021
Introduction to Risk Innovation (HSD 598) 3 Credit Hours Arizona State University School for the Future of Innovation in Society	2015 – 2016
Entrepreneurial Ethics 1.5 Credit Hours University of Michigan College of Engineering	2013 – 2015
Principles of Risk Assessment 2 Credit Hours University of Michigan School of Public Health	2011 - 2015

Professional Perspectives in Environmental Health 2 Credit Hours University of Michigan School of Public Health	2011 - 2014
Environmental Health Policy 2 Credit Hours University of Michigan School of Public Health	2012 - 2014
Communicating Science through Social Media 2 Credit Hours University of Michigan School of Public Health	2012 - 2013
Aerosol Dynamics 3 Credit Hours University of Cincinnati, Department of Environmental Health	2002 - 2004

PHD COMMITTEES

Chris Brandt (chair), ASU. Focus: TBD.	Current
Jared Byrne (chair), ASU. Focus: Entrepreneurship training in higher ed.	Current
Kevin Dwyer , ASU. Focus: Resilience and dam infrastructure	Current
Kevin Johnson (chair), ASU. Focus: philosophy of love and innovation	Current
Jonathan Klane (chair), ASU. Focus: Narrative and laboratory safety.	Current
Nicole Mayberry (co-chair), ASU. Focus: Robots, innovation, and anti-blackness	Current
Jeishu Wang (chair), ASU. Focus: AI and invention	Current
Jamie Winterton (chair). Focus: Cyber security	Current
Dania Wright (chair), ASU. Focus: Online science communication	Current
Shivam Zaveri , ASU. Focus: sociotechnical systems and entrepreneurship	Current
Jason Brown (chair), ASU. Thinking Like a Futurist: Investigating the Theories and Processes of Threatcasting Post-Analysis	2021
Robert Sickler (chair), ASU. The Technology Triad: Reimagining the Relationship Between Technology and Military Innovation	2021
Justin Kidd , ASU. An Interdisciplinary Approach to Identifying the Potential Environmental, Human Health, and Societal Impacts of Engineered Metallic and Carbon Nanomaterials	2020
Changdeok Gim , ASU. Institutional Management for Infrastructure Resilience	2019
Elizabeth Garbee (chair), ASU. The Value of a STEM PhD	2018
Ryan Lewis , University of Michigan. Exposure Science Issues Concerning 60 Hz Magnetic Fields.	2015
Dingsheng Li , University of Michigan,.A Physiologically Based Pharmacokinetic Model Study of the Biological Fate, Transport, and Behavior of Engineered Nanoparticles	2014
Ei-Wen Lo , University of Michigan. A Model to Predict Driver Performance When Interacting with In-Vehicle Speech Interfaces for Destination Entry and Music Selection	2012
Kristen Russ , University of Michigan. Cellular Toxicity of C60 Fullerenes in RAW 264.7 Immortalized Macrophages	2012
Sebastien Bau , INRS, France. Surface area measurement of nanoscale aerosols.	2008

Shu An Lee, University of Cincinnati. Laboratory and field evaluation of N95 respirators using a new method

2004

CONFERENCE & WORKSHOP LEADERSHIP

Seventh International Symposium on Nanotechnology and Occupational Health South Africa (2015). Advisor, and member of the International Advisory Board

2015 Michigan Meeting: Academic engagement in public and political discourse Ann Arbor (2015). Meeting organizing committee

2013 Bernstein Symposium: Why Is It Hard to Pivot Based on Science? Ann Arbor (2013). Symposium Chair

Sixth International Symposium on Nanotechnology and Occupational Health Japan (2013). Advisor, and member of the International Advisory Board

2011 Risk Science Symposium: Risk, Uncertainty and Sustainable Innovation Ann Arbor MI (2011). Symposium Chair

Fifth International Symposium on Nanotechnology and Occupational Health Boston (2011). Advisor, and member of the International Advisory Board

Fourth International Symposium on Nanotechnology and Occupational Health Helsinki (2009). Advisor, and member of the International Advisory Board

Third International Symposium on Nanotechnology and Occupational Health Taiwan (2007). Co-chair

Second International Symposium on Nanotechnology and Occupational Health Minneapolis, USA (2005). Co-chair

Materials Research Society Symposium: Nanomaterials and the Environment (2005). Co-chair

First International Symposium: Nanotoxicology: Biomedical Aspects Miami (2005). Organizing committee

Developing Experimental Approaches for Evaluation of Toxicological Interactions of Nanoscale Materials Gainesville Florida (2004) Steering Committee member

First International Symposium on Nanotechnology and Occupational Health Buxton, UK (2004). Co-chair

Emerging Issues in Nanoaerosol Science and Technology Workshop sponsored by the National Science Foundation and the Environmental Protection Agency (2003). Panel Member

Royal Society (London) "Ultrafine Particles in the Atmosphere" (London, 2000). Co-chair

10 MOST CITED PUBLICATIONS IN PEER REVIEW JOURNALS

Google Scholar metrics: Citations: 21,778. H-index: 52, i10-index: 106 (Updated 1/9/22)

1. Poland, C. A., R. Duffin, I. Kinloch, A. Maynard, W. A. H. Wallace, A. Seaton, V. Stone, S. Brown, W. MacNee and K. Donaldson (2008). "Carbon nanotubes introduced into the abdominal cavity of mice show asbestos-like pathogenicity in a pilot study." *Nature Nanotechnology* **3**: 423-428. (2868 citations)

- Oberdörster, G., A. Maynard, K. Donaldson, V. Castranova, J. Fitzpatrick, K. Ausman, J. Carter, B. Karn, W. Kreyling, D. Lai, S. Olin, N. Monteiro-Riviere, D. Warheit and H. Yang (2005). "Principles for characterizing the potential human health effects from exposure to nanomaterials: elements of a screening strategy." Part. Fiber Toxicol. **2**(8): doi:10.1186/1743-8977-1182-1188. (2349 citations)
- Maynard, A. D., R. J. Aitken, T. Butz, V. Colvin, K. Donaldson, G. Oberdörster, M. A. Philbert, J. Ryan, A. Seaton, V. Stone, S. S. Tinkle, L. Tran, N. J. Walker and D. B. Warheit (2006). "Safe handling of nanotechnology." Nature **444**(16): 267-269. (1756 citations)
- Shvedova, A. A., E. R. Kisin, R. Mercer, A. R. Murray, V. J. Johnson, A. I. Potapovich, Y. Y. Tyurina, O. Gorelik, S. Arepalli, D. Schwegler-Berry, A. F. Hubbs, J. Antonini, D. E. Evans, B. K. Ku, D. Ramsey, A. Maynard, V. E. Kagan, V. Castranova and P. Baron (2005). "Unusual inflammatory and fibrogenic pulmonary responses to single-walled carbon nanotubes in mice." Am. J. Physiol.-Lung Cell. Mol. Physiol. **289**: 698-708. (1512)
- Shvedova, A. A., E. R. Kisin, A. R. Murray, V. Z. Gandelsman, A. D. Maynard, P. A. Baron and V. Castranova (2003). "Exposure to carbon nanotube material: Assessment of the biological effects of nanotube materials using human keratinocyte cells." J. Toxicol. Environ. Health **66**(20): 1909-1926. (1496 citations)
- Elder, A., R. Gelein, V. Silva, T. Feikert, L. Opanashuk, J. Carter, R. Potter, A. Maynard, J. Finkelstein and G. Oberdorster (2006). "Translocation of inhaled ultrafine manganese oxide particles to the central nervous system." Environmental Health Perspectives **114**(8): 1172-1178. (1231 citations)
- Maynard, A. D., P. A. Baron, M. Foley, A. A. Shvedova, E. R. Kisin and V. Castranova (2004). "Exposure to Carbon Nanotube Material: Aerosol Release During the Handling of Unrefined Single Walled Carbon Nanotube Material." J. Toxicol. Environ. Health **67**(1): 87-107. (962 citations)
- Shvedova, A. A., E. Kisin, A. R. Murray, V. J. Johnson, O. Gorelik, S. Arepalli, A. F. Hubbs, R. R. Mercer, P. Keohavong, N. Sussman, J. Jin, J. Yin, S. Stone, B. T. Chen, G. Deye, A. Maynard, V. Castranova, P. A. Baron and V. E. Kagan (2008). "Inhalation vs. aspiration of single-walled carbon nanotubes in C57BL/6 mice: inflammation, fibrosis, oxidative stress, and mutagenesis." Am. J. Physiol.-Lung Cell. Mol. Physiol. **295**: L552-L565.(685 citations)
- Maynard, A. D. and E. D. Kuempel (2005). "Airborne nanostructured particles and occupational health." Journal Of Nanoparticle Research **7**(6): 587-614. (669 citations)
- Tsuji, J. S., A. D. Maynard, P. C. Howard, J. T. James, C. W. Lam, D. B. Warheit and A. B. Santamaria (2006). "Research strategies for safety evaluation of nanomaterials, part IV: Risk assessment of nanoparticles." Toxicological Sciences **89**(1): 42-50. (572 citations)

PUBLICATIONS IN ACADEMIC JOURNALS

Google Scholar: <https://scholar.google.com/citations?hl=en&user=b8NhWc4AAAAJ>

- Kidd, J., P. Westerhoff and A. Maynard (2021). "Survey of industrial perceptions for the use of nanomaterials for in-home drinking water purification devices." NanoImpact **22**: 100320.
- Hadi, A. and Maynard, A. D. (2021) Design the Future Activities (DFA): A Pedagogical Content Knowledge Framework in Engineering Design Education. Virtual Conference, ASEE Conferences.
- Maynard, A. D. (2021). "How to Succeed as an Academic on YouTube." Frontiers in Communication **5**(130).
- Kidd, J., P. Westerhoff and A. Maynard (2020). "Public perceptions for the use of Nanomaterials for in-home drinking water purification devices." NanoImpact: 100220. DOI: 10.1016/j.impact.2020.100220
- Guseva Canu, I., K. Batsungnoen, A. Maynard and N. B. Hopf (2020). "State of knowledge on the occupational exposure to carbon nanotube." International Journal of Hygiene and Environmental Health **225**: 113472.
- Tournas, L., W. Johnson, A. Maynard and D. Bowman (2019). "Germline Doping for Heightened Performance in Sport." Australian and New Zealand Sports Law Journal **12**(1): 1-24.
- Maynard, A. D. and M. Scragg (2019). "The Ethical and Responsible Development and Application of

- Advanced Brain Machine Interfaces." *J Med Internet Res* **21**(10): e16321.
8. Maynard, A. D. and J. Kidd (2018). "Are assumptions of consumer views impeding nano-based water treatment technologies?" *Nature Nanotechnology* **13**(8): 673-674.
 9. Finkel, A. M., et al. (2018). "A "solution-focused" comparative risk assessment of conventional and synthetic biology approaches to control mosquitoes carrying the dengue fever virus." *Environment Systems and Decisions* **38**(2): 177-197.
 10. Maynard, A. D. (2018). "Thinking Differently about Risk." *Astrobiology* **18**(2).
 11. Hansen, S. F., R. Hjorth, L. M. Skjolding, D. M. Bowman, A. Maynard and A. Baun (2017). "A critical analysis of the environmental dossiers from the OECD sponsorship programme for the testing of manufactured nanomaterials." *Environmental Science: Nano*: 4, 282-291.
 12. Maynard, A. D. and R. J. Aitken (2016). "'Safe handling of nanotechnology' ten years on." *Nature Nanotechnology* **11**: 998-1000.
 13. Maynard, A. D., D. M. Bowman and J. G. Hodge Jr (2016). "Mitigating Risks to Pregnant Teens from Zika Virus." *The Journal of Law, Medicine & Ethics* **44**(4): 657-659.
 14. Maynard, A. D. (2016). "Is nanotech failing casual learners?" *Nature Nanotechnology* **11**(9): 734-735.
 15. Lewis, R. C., R. Hauser, A. D. Maynard, R. L. Neitzel, L. Wang, R. Kavet, P. Morey, J. B. Ford, J. D. Meeker and R. Dadd (2016). "Personal Measures Of Power-Frequency Magnetic Field Exposure Among Men From An Infertility Clinic: Distribution, Temporal Variability And Correlation With Their Female Partners' exposure." *Radiation protection dosimetry* **172**(4): 401-408.
 16. Wilding, L. A., C. M. Bassis, K. Walacavage, S. Hashway, P. R. Leroueil, M. Morishita, A. D. Maynard, M. A. Philbert and I. L. Bergin (2016). "Repeated dose (28-day) administration of silver nanoparticles of varied size and coating does not significantly alter the indigenous murine gut microbiome." *Nanotoxicology* **10**(5): 513-520.
 17. Lewis, R. C., R. Hauser, A. D. Maynard, R. L. Neitzel, L. Wang, R. Kavet and J. D. Meeker (2016). "Exposure to Power-Frequency Magnetic Fields and the Risk of Infertility and Adverse Pregnancy Outcomes: Update on the Human Evidence and Recommendations for Future Study Designs." *Journal of Toxicology and Environmental Health - Part B: Critical Reviews* **19**(1): 29-45.
 18. Wilding, L. A., C. M. Bassis, K. Walacavage, S. Hashway, P. R. Leroueil, M. Morishita, A. D. Maynard, M. A. Philbert and I. L. Bergin (2016). "Repeated dose (28-day) administration of silver nanoparticles of varied size and coating does not significantly alter the indigenous murine gut microbiome." *Nanotoxicology* **10**(5): 513-520.
 19. Maynard, A. D. (2016). "Are we ready for spray-on carbon nanotubes?" *Nature Nanotechnology* **11**: 490-491.
 20. Ault, A. P., D. I. Stark, J. L. Axson, J. N. Keeney, A. D. Maynard, I. L. Bergin and M. A. Philbert (2016). "Protein corona-induced modification of silver nanoparticle aggregation in simulated gastric fluid." *Environmental Science: Nano* **3**(6): 1510-1520.
 21. Maynard, A. D. (2016). "Navigating the risk landscape." *Nature Nanotechnology* **11**(3): 211-212.
 22. Bergin, I. L., L. A. Wilding, M. Morishita, K. Walacavage, A. P. Ault, J. L. Axson, D. I. Stark, S. A. Hashway, S. S. Capracotta, P. R. Leroueil, A. D. Maynard and M. A. Philbert (2016). "Effects of particle size and coating on toxicologic parameters, fecal elimination kinetics and tissue distribution of acutely ingested silver nanoparticles in a mouse model." *Nanotoxicology* **10**(3): 352-360.
 23. Maynard, A. D. (2015). "Navigating the fourth industrial revolution." *Nature Nanotechnology* **10**: 1005-1006.
 24. Maynard, A. D. (2015). "Why we need risk innovation." *Nature Nanotechnology* **10**: 730-731.
 25. Axson, J. L., D. I. Stark, A. L. Bondy, S. S. Capracotta, A. D. Maynard, M. A. Philbert, I. L. Bergin and A. P. Ault (2015). "Rapid Kinetics of Size and pH-Dependent Dissolution and Aggregation of Silver Nanoparticles in Simulated Gastric Fluid." *Journal of Physical Chemistry C* **119**(35): 20632-20641.
 26. Maynard, A. D. (2015). "Learning from the past" *Nature Nanotechnology* **10**: 482-483
 27. Maynard, A. D. (2015). "Responsible Innovation – the (nano) entrepreneur’s dilemma." *Nature*

- Nanotechnology **10**: 199-200.
28. Harper, S., W. Wohlleben, M. Doa, B. Nowack, S. Clancy, R. Canady and A. Maynard (2015). "Measuring Nanomaterial Release from Carbon Nanotube Composites: Review of the State of the Science." *J Phys Conf Ser* **617**(1).
 29. Maynard, A. D. (2014). Could we 3D print an artificial mind? *Nature Nanotechnology* **9**(12): 955-956.
 30. Maynard A. D. (2014). Old materials, new challenges? *Nature Nanotechnology* **9**: 658-659
 31. Scherer, L. D., A. Maynard, D. C. Dolinoy, A. Fagerlin and B. Zikmund-Fisher (2014). The psychology of 'regrettable substitutions': examining consumer judgments of Bisphenol A and its alternatives. *Health Risk & Society* **16**(7-8): 649-666.
 32. Maynard A. D. (2014). Is novelty overrated? *Nature Nanotechnology* **9**(3): 409-410.
 33. Hodge, G. A., A. D. Maynard and D. M. Bowman (2014). "Nanotechnology: Rhetoric, risk and regulation." *Science and Public Policy* **41**(1): 1-14.
 34. Maynard A. D. (2014). A decade of uncertainty. *Nature Nanotechnology* **9**(3): 159-160.
 35. Ramachandran, G., J. Howard, A. Maynard and M. Philbert (2012). "Handling Worker and Third-Party Exposures to Nanotherapeutics During Clinical Trials." *Journal of Law Medicine & Ethics* **40**(4): 856-864.
 36. Fatehi, L., S. M. Wolf, J. McCullough, R. Hall, F. Lawrenz, J. P. Kahn, C. Jones, S. A. Campbell, R. S. Dresser, A. G. Erdman, C. L. Haynes, R. A. Hoerr, L. F. Hogle, M. A. Keane, G. Khushf, N. M. P. King, E. Kokkoli, G. Marchant, A. D. Maynard, M. Philbert, G. Ramachandran, R. A. Siegel and S. Wickline (2012). "Recommendations for Nanomedicine Human Subjects Research Oversight: An Evolutionary Approach for an Emerging Field." *Journal of Law Medicine & Ethics* **40**(4): 716-750.
 37. Ramachandran G, Ostraat M, Evans DE, Methner MM, O'Shaughnessy P, D'Arcy J, et al. (2011). A Strategy for Assessing Workplace Exposures to Nanomaterials. *JOEH* **8**(11): 673-685.
 38. Kriegel, C., J. Koehne, S. Tinkle, A. D. Maynard and R. A. Hill (2011). "Challenges of Trainees in a Multidisciplinary Research Program: Nano-Biotechnology." *J. Chemical Edu.* **88**(1): 53-55.
 39. Maynard AD, Warheit D, Philbert MA. (2011). The New Toxicology of Sophisticated Materials: Nanotoxicology and Beyond. *Tox Sci* **120**(Suppl 1): S109-S129.
 40. Maynard AD, Bowman D, Hodge G. (2011). The problem of regulating sophisticated materials. *Nature Mat* **10**: 554-557.
 41. Maynard A. D. (2011). Regulators: Don't define nanomaterials. *Nature* **475**: 31.
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ONLINE CONTENT (SELECTED)

Risk Bites (<https://www.youtube.com/user/riskbites>)

Risk Bites is a YouTube channel produced by and featuring content created by Andrew Maynard. Risk Bites uses white board videos to explore risk for a broad audience. Launched July 2012.

Analytics as of 1/9/22: Subscribers: 20,591. Views: 3,698,516. Watch Time: 132,700 hours.

Recent videos (selection):

1. A Short Guide to the Future (October 2, 2021) <https://youtu.be/RxOGxKryrjs>

2. Creating a Better Future with the ASU College of Global Futures (September 11, 2021) <https://youtu.be/f5nFk9122Ss>
3. Four Simple Steps to Slowing the Spread of COVID (9August 7, 2021) <https://youtu.be/YECtELJ5ibY>
4. How Safe is Graphene? (April 4, 2021) <https://youtu.be/-Puec2aLy10>
5. How does your face mask or respirator protect you? | The science of face masks (January 26, 2021) <https://youtu.be/ahX27q83Nek>
6. Should you get the COVID vaccine? (December 5, 2020) <https://youtu.be/OC9vnISihKM>
7. Five Ethical Challenges of Advanced Brain Computer Interfaces (November 23, 2020) <https://youtu.be/514agonyu7c>
8. A Practical Guide to Responsible Innovation (October 12, 2020) <https://youtu.be/qFYG9ZnQjHs>
9. The Risks and Ethics of Facial Recognition Technology (June 25, 2020) <https://youtu.be/2SdpzTZTznw>
10. A Guide to Self-Care while Social Distancing (March 23, 2020) https://youtu.be/jnrxtxAmdQ_w
11. A social distancing guide for students living with coronavirus (March 10, 2020) <https://youtu.be/BzfueLoRjwM>
12. Can sci-fi movies lead to more ethical technologies? (January 20, 2019) https://www.youtube.com/watch?v=pMuO7zJa5_Q
13. Cultured Meat: What is lab grown meat, and would you eat it? (with Mariya Voytyuk) (October 22 2018) <https://www.youtube.com/watch?v=eRtB9N3tl8U>
14. How dangerous is radon to your health? (May 2 2018). <https://www.youtube.com/watch?v=SIRVdKdTBFE>
15. Just how dangerous is a cup of coffee? (March 30 2018). <https://www.youtube.com/watch?v=2OQaV7HGyJA>
16. How safe are self driving cars? (March 25 2018). https://www.youtube.com/watch?v=j- ---qMv_Y
17. AI Safety: Ten possible risks of artificial intelligence (March 7 2018). <https://www.youtube.com/watch?v=1oeoosMrJz4>
18. Why Science Communication? (Feb 15 2018). <https://www.youtube.com/watch?v=CndVeN-yAaw>
19. Will gene editing in sports lead to super-athletes? (Feb 8 2018). <https://www.youtube.com/watch?v=sHxnnWZv5TU>
20. What is the Fourth Industrial Revolution? And why should you care? (Jan 16 2018). <https://www.youtube.com/watch?v=qhLvhYFLoWE>
21. How can Solution Focused Risk Assessment help govern Emerging Technologies? (with Adam Finkel) (Jan 2 2018). <https://www.youtube.com/watch?v=n7XkdbpYWHk>
22. What is Epidemiology (with Mariya Voytyuk) (July 27 2017). <https://www.youtube.com/watch?v=r9poHB-ldqk>
23. Measuring radiation dose using Sieverts. (April 23 2017). <https://youtu.be/vRYwUPBZ-J4>
24. What is nanotechnology? (July 2016). <https://www.youtube.com/watch?v=DAOFpgocfrg>
25. Are Engineered Nanoparticles Dangerous? (March 2016) <https://www.youtube.com/watch?v=wxFbYoF7SLc>
26. Should young kids avoid peanut products? (March 2016) <https://www.youtube.com/watch?v=cnfuMzHsbOo> (in collaboration with ACS Reactions)
27. Zika and microcephaly: Five things worth knowing (March 2016) https://www.youtube.com/watch?v=w3XX_W7pLAM
28. What are gene drives? A Risk Bites guide (November 2015) <https://www.youtube.com/watch?v=KgvhUPiDdq8>
29. Should you be worried about Microbeads? (September 2015) <https://www.youtube.com/watch?v=K5tdhilRoW0>
30. A New Way to Evaluate Chemical Safety - TOX21 (July 2015) <https://www.youtube.com/watch?v=vKhn1HRXgn8>

31. How Safe are Tanning beds? (June 2015) <https://www.youtube.com/watch?v=jyAwGIRnnNk>
32. What does "Probably Cause Cancer" actually mean? (March 2015) <https://www.youtube.com/watch?v=CbBkB81ySxQ>
33. The Risk Bites Guide to Staying Alive - a Toxicology Primer (March 2015) https://www.youtube.com/watch?v=b_y9VTDlmlE
34. Five things you should know about concussion and contact sports (December 2014) <https://www.youtube.com/watch?v=1M-T5yzkeBs>
35. 5 things worth knowing about Ebola (October 2014) <https://www.youtube.com/watch?v=jRv5zZUcWRc>
36. Why Aren't We More Scared of Measles? (September 2014) <https://www.youtube.com/watch?v=X9udphYRJmw>
37. Five things worth knowing about nanoparticles and sunscreens (June 2014) <https://www.youtube.com/watch?v=VV0cCg4clMw>
38. Electronic cigarettes and health - the basics (April 2014) <https://www.youtube.com/watch?v=mToznqKD5Ac>

Mission: Interplanetary podcast (<https://podcasts.apple.com/us/podcast/mission-interplanetary/id1557978522>)

A podcast co-hosted with former astronaut Cady Coleman, and produced through the ASU Interplanetary Initiative. Series one was hosted by Slate.

Launched April 2021.

Recent episodes:

1. Our Celestial Bodies, Ourselves (March 23, 2021) <https://podcasts.apple.com/us/podcast/our-celestial-bodies-ourselves/id1557978522?i=1000514085254>
2. A Space of One's Own (March 30, 2021) <https://podcasts.apple.com/us/podcast/a-space-of-ones-own/id1557978522?i=1000514997016>
3. Our Mars Fixation (April 6, 2021) <https://podcasts.apple.com/us/podcast/our-mars-fixation/id1557978522?i=1000515961646>
4. No Space for Columbus (April 13, 2021) <https://podcasts.apple.com/us/podcast/no-space-for-columbus/id1557978522?i=1000516925309>
5. Closing Time (April 20, 2021) <https://podcasts.apple.com/us/podcast/closing-time/id1557978522?i=1000517873681>
6. Murder in Space (April 27, 2021) <https://podcasts.apple.com/us/podcast/murder-in-space/id1557978522?i=1000518803810>
7. Trash at 17,000 mph (May 4, 2021) <https://podcasts.apple.com/us/podcast/trash-at-17-000-mpg/id1557978522?i=1000520014287>
8. Sharing Space (May 11, 2021) <https://podcasts.apple.com/us/podcast/sharing-space/id1557978522?i=1000521276726>

Future Rising podcast (<https://podcasts.apple.com/us/podcast/future-rising/id1566786422>)

A podcast based on the book Future Rising: A Journey from the Past to the Edge of Tomorrow.

Launched May 2021.

Recent episodes:

1. Introduction - A World In Turmoil (May 9, 2021) <https://podcasts.apple.com/us/podcast/introduction-a-world-in-turmoil/id1566786422?i=1000521183414>
2. Earthrise – How a 1968 photo transformed how we think about the future (May 17, 2021) <https://podcasts.apple.com/us/podcast/earthrise-how-a-1968-photo-transformed-how-we-think/id1566786422?i=1000521988723>
3. Origins – The Big Bang (May 19, 2021) <https://podcasts.apple.com/us/podcast/origins-the-big->

- [bang/id1566786422?i=1000522319304](https://podcasts.apple.com/us/podcast/light-metaphorically-and-physically-illuminating-our/id1566786422?i=1000522632673)
4. Light – Metaphorically and Physically Illuminating our Futures (May 21, 2021) <https://podcasts.apple.com/us/podcast/light-metaphorically-and-physically-illuminating-our/id1566786422?i=1000522632673>
 5. Movement – Marking the Transition Between Past and Future (May 24, 2021) <https://podcasts.apple.com/us/podcast/movement-marking-the-transition-between-past-and-future/id1566786422?i=1000522887874>
 6. Time – How We’re Immersed In It, Obsessed By It, Yet Can’t Control It (May 26, 2021) <https://podcasts.apple.com/us/podcast/time-how-were-immersed-in-it-obsessed-by-it-yet-cant/id1566786422?i=1000523143515>
 7. Entropy – The Inexorable Arrow of Time (May 28, 2021) <https://podcasts.apple.com/us/podcast/entropy-the-inexorable-arrow-of-time/id1566786422?i=1000523381550>
 8. Emergence – The Rise of Biological Complexity (May 31, 2021) <https://podcasts.apple.com/us/podcast/emergence-the-rise-of-biological-complexity/id1566786422?i=1000523628106>
 9. Evolution – DNA: A powerful entropy accelerator (June 2, 2021) <https://podcasts.apple.com/us/podcast/evolution-dna-a-powerful-entropy-accelerator/id1566786422?i=1000523896205>
 10. Anticipation – How awareness of the future affects our decisions in the present (June 4, 2021) <https://podcasts.apple.com/us/podcast/anticipation-how-awareness-of-the-future-affects/id1566786422?i=1000524207871>
 11. Instinct – The power and perils of building the future based on gut feelings (June 7, 2021) <https://podcasts.apple.com/us/podcast/instinct-the-power-and-perils-of-building-the/id1566786422?i=1000524474838>
 12. Causality – How cause and effect are connected to the future (June 9, 2021) <https://podcasts.apple.com/us/podcast/causality-how-cause-and-effect-are-connected-to-the-future/id1566786422?i=1000524749873>
 13. Memory – An essential part of our future-planning skills (June 11, 2021) <https://podcasts.apple.com/us/podcast/memory-an-essential-part-of-our-future-planning-skills/id1566786422?i=1000525043145>
 14. Learning – Moving Beyond Instinct (June 14, 2021) <https://podcasts.apple.com/us/podcast/learning-moving-beyond-instinct/id1566786422?i=1000525412449>
 15. Intentionality – Escaping Fate (June 16, 2021) <https://podcasts.apple.com/us/podcast/intentionality-escaping-fate/id1566786422?i=1000525711317>
 16. Intelligence – Part of the “secret sauce” of future-building (June 18, 2021) <https://podcasts.apple.com/us/podcast/intelligence-part-of-the-secret-sauce-of-future-building/id1566786422?i=1000525987973>
 17. Knowledge – Fueling Our Understanding (June 21, 2021) <https://podcasts.apple.com/us/podcast/knowledge-fueling-our-understanding/id1566786422?i=1000526249676>
 18. Reason – A Window into the Future (June 23, 2021) <https://podcasts.apple.com/us/podcast/reason-a-window-into-the-future/id1566786422?i=1000526590034>
 19. Thinking differently about the future (Bonus episode) 9August 10, 2021) <https://podcasts.apple.com/us/podcast/thinking-differently-about-the-future-bonus-episode/id1566786422?i=1000531574805>
 20. Feelings – Transcending mere facts (November 29, 2021) <https://podcasts.apple.com/us/podcast/feelings-transcending-mere-facts/id1566786422?i=1000543342726>
 21. Faith – Believing in futures that lie beyond understanding (December 6, 2021) <https://podcasts.apple.com/us/podcast/faith-believing-in-futures-that-lie-beyond->

[understanding/id1566786422?i=1000544065911](https://podcasts.apple.com/us/podcast/understanding/id1566786422?i=1000544065911)

22. Imagination – Envisioning alternative futures (December 13, 2021) <https://podcasts.apple.com/us/podcast/imagination-envisioning-alternative-futures/id1566786422?i=1000544782292>
23. Curiosity – Scratching the Itch of the Unknown (December 20, 2021) <https://podcasts.apple.com/us/podcast/curiosity-scratching-the-itch-of-the-unknown/id1566786422?i=1000545482363>
24. Creativity – The New Innovation (December 27, 2021) <https://podcasts.apple.com/us/podcast/creativity-the-new-innovation/id1566786422?i=1000546192064>
25. Art – The Oxygen that Fuels our Creativity (Jan 3, 2022) <https://podcasts.apple.com/us/podcast/art-the-oxygen-that-fuels-our-creativity/id1566786422?i=1000546763855>

Future Out Loud Podcast (<https://soundcloud.com/user-723097380>)

Future Out Loud is a podcast conceived and produced by Heather Ross, and co-hosted by Andrew Maynard. It explores the intersection between science, technology and society.

Launched November 2016.

Recent episodes (selection from over 50 episodes):

1. Estonian Election Security (June 2019) <https://soundcloud.com/user-723097380/estonian-election-security>
2. Elections for the Next Generation (June 2019) <https://soundcloud.com/user-723097380/elections-for-the-next-generation>
3. Ranked Choice Voting (April 2019) <https://soundcloud.com/user-723097380/ranked-choice-voting>
4. Election Security with Maricopa County Recorder Adrian Fontes (April 2019) <https://soundcloud.com/user-723097380/election-security-adrian-fontes>
5. AZ Secretary of State Katie Hobbs (April 2019) <https://soundcloud.com/user-723097380/az-secretary-of-state-katie-hobbs>
6. Elections (April 2019) <https://soundcloud.com/user-723097380/elections>
7. Films from the Future (2018) <https://soundcloud.com/user-723097380/films-from-the-future>
8. Should technology solve humanity’s problems? (2018) <https://soundcloud.com/user-723097380/google-ceo>
9. 3D printed guns (2018) <https://soundcloud.com/user-723097380/3d-guns>
10. Global innovation in human rights, with Erica Kochi (May 2018) <https://soundcloud.com/user-723097380/human-rights>
11. How to govern emerging technologies, with Gillian Hadfield (May 2018) <https://soundcloud.com/user-723097380/hadfield>
12. DIY Biohacking, with Todd Kuiken (May 2018) <https://soundcloud.com/user-723097380/diy-biohacking>
13. Autonomous Vehicle Fatality Number 1 (2018) <https://soundcloud.com/user-723097380/av-fatality>
14. Future of Energy Systems (2018) <https://soundcloud.com/user-723097380/future-energy-systems>
15. EpiFinder (2018) <https://soundcloud.com/user-723097380/epifinder>
16. GeneSports (February 2018) <https://soundcloud.com/user-723097380/genesports>
17. Can My Tech Feel Me? (February 2018) <https://soundcloud.com/user-723097380/can-my-tech-feel-me>
18. Sci Fi Grounded in Space (January 2018) <https://soundcloud.com/user-723097380/sci-fi-grounded-in-space>
19. Net Neutrality (January 2018) <https://soundcloud.com/user-723097380/net-neutrality>
20. Greg Benford (December 2017) <https://soundcloud.com/user-723097380/greg-benford>

Edge of Innovation (<https://theconversation.com/columns/andrew-maynard-128048>)

Edge of Innovation was a column written for The Conversation between 2015 – 2016 (when column writers were

incorporated into mainstream articles on the website). A full list of articles on The Conversation can be found here: <https://theconversation.com/profiles/andrew-maynard-128048/articles>

Selection of articles (also listed elsewhere in CV):

1. Will driving your own car become the socially unacceptable public health risk smoking is today? (September 2016) <https://theconversation.com/will-driving-your-own-car-become-the-socially-unacceptable-public-health-risk-smoking-is-today-65891>
2. Considering ethics now before radically new brain technologies get away from us (September 2016) <https://theconversation.com/considering-ethics-now-before-radically-new-brain-technologies-get-away-from-us-65215>
3. It'll take more than tech for Elon Musk to pull off audacious new Tesla master plan (July 2016) <https://theconversation.com/itll-take-more-than-tech-for-elon-musk-to-pull-off-audacious-new-tesla-master-plan-62884>
4. How risky are the World Economic Forum's top 10 emerging technologies for 2016? (June 2016) <https://theconversation.com/how-risky-are-the-world-economic-forums-top-10-emerging-technologies-for-2016-61349>
5. Nanoparticles in baby formula: should parents be worried? (May 2016) <https://theconversation.com/nanoparticles-in-baby-formula-should-parents-be-worried-59246>
6. We don't talk much about nanotechnology risks anymore, but that doesn't mean they're gone (March 2016) <https://theconversation.com/we-dont-talk-much-about-nanotechnology-risks-anymore-but-that-doesnt-mean-theyre-gone-56889>
7. Public universities must do more: the public needs our help and expertise (March 2016) <https://theconversation.com/public-universities-must-do-more-the-public-needs-our-help-and-expertise-56016>
8. Three ways synthetic biology could annihilate Zika and other mosquito-borne diseases (February 2016) <https://theconversation.com/three-ways-synthetic-biology-could-annihilate-zika-and-other-mosquito-borne-diseases-54087>
9. Can citizen science empower disenfranchised communities? (January 2016) <https://theconversation.com/can-citizen-science-empower-disenfranchised-communities-53625>
10. The fourth industrial revolution: what does WEF's Klaus Schwab leave out? (January 2016) <https://theconversation.com/the-fourth-industrial-revolution-what-does-wefs-klaus-schwab-leave-out-53049>

Science Showcase (<http://scienceshowcase.org>)

Science Showcase is a new YouTube platform that is curated by Andrew Maynard. It provides a forum for researchers to showcase highly accessible videos on the "what" and "how" of science, technology and engineering.

Miscellaneous Media

Select online content featuring Andrew Maynard:

1. Horizon, Arizona PBS: The metaverse could become a reality in the next few years (December 16, 2021) <https://azpbs.org/horizon/2021/12/metaverse-could-become-a-reality-next-few-years/>
2. KJZZ: 'Future Rising': How Technology Might Stop Humanity From Repeating Past Mistakes (November 23, 2020): <https://kjzz.org/content/1638027/future-rising-how-technology-might-stop-humanity-repeating-past-mistakes>
3. KPCW: A Journey From The Past To The Edge of Tomorrow with Dr. Andrew Maynard (November 19, 2020) <https://www.kpcw.org/post/journey-past-edge-tomorrow-dr-andrew-maynard#stream/0>
4. WAMC: "Future Rising" By Andrew Maynard (October 29, 2020) <https://www.wamc.org/post/future-rising-andrew-maynard>
5. ASU Now: 'Future Rising' looks back to design for the future (October 20, 2020) <https://asunow.asu.edu/20201020-creativity-future-rising-looks-back-design-future>

6. NPR: Precautionary Behavior Around Coronavirus Aligns With Perceived Risk (March 21, 2020) <https://www.npr.org/2020/03/21/819629077/precautionary-behavior-around-coronavirus-aligns-with-perceived-risk>
7. KJZZ: ASU Professor: Some Businesses Struggle To Adapt, Innovate (December 16, 2019) <https://kjzz.org/content/1357611/asu-professor-some-businesses-struggle-adapt-innovate>
8. The Future Will Not Be Podcast podcast: Science Fiction (September 17, 2019) <http://www.thefuturewillnotbepodcast.com/sci-fi>
9. ASU Thought Huddle Podcast: Future Visions, Past Reflections (September 2019) <https://asunow.asu.edu/thought-huddle/future-visions-past-reflections>
10. Tech2025 podcast: Tech News Roundup with Andrew Maynard (August 5, 2019) <https://tech2025.com/2019/08/05/tech-news-roundup-with-andrew-maynard-your-face-is-a-weapon-google-employees-love-bernie-warren-new-bill-on-tech-addiction-and-turning-children-into-cyborgs/>
11. This Week in Tech – Andrew Maynard, Films from the Future (August 2, 2019) <https://twit.tv/shows/triangulation/episodes/408>
12. Balancing the speed of innovation and regulation (panel discussion at CES 2019 – February 2019) <https://videos.ces.tech/detail/video/5987711783001/balancing-the-speed-of-innovation-and-regulation>
13. Big Picture Science – Sci-Fi From the Future (January 2019) <http://radio.seti.org/episodes/sci-fi-future>
14. KJZZ – What Science Fiction Can Teach Us About Today's Social Issues (November 2018) <https://kjzz.org/content/731355/what-science-fiction-can-teach-us-about-todays-social-issues>
15. Spark Radio – From precogs to T-rex, sci-fi films teach us about the ethics of new technology (December 2018) <https://www.cbc.ca/radio/spark/from-precogs-to-t-rex-sci-fi-films-teach-us-about-the-ethics-of-new-technology-1.4955887>
16. IEEE Spectrum – Q&A: Can Sci-fi Movies Help Us Avoid Technological Disaster? (November 2018) <https://spectrum.ieee.org/tech-talk/at-work/innovation/can-scifi-movies-help-us-avoid-disaster>
17. ASU/Got a Minute – Andrew Maynard on Fear (September 2018) <https://asunow.asu.edu/content/andrew-maynard-fear>
18. FastCompany – How The World Economic Forum Is Tackling The Dangers Of Big Tech (January 2018) <https://www.fastcompany.com/40518077/how-wef-tackles-dangers-of-big-tech>
19. World Economic Forum – Podcast: The Fourth Industrial Revolution and the future of work (February 2018) <https://www.weforum.org/agenda/2018/02/podcast-work-in-the-4ir/>
20. The State Press – Frankenstein Project is starting conversations about scientific responsibility (October 2017) <http://www.statepress.com/article/2017/10/spscience-frankenstein-is-used-to-start-conversations-about-scientific-responsibility>
21. Salon – The Impossible Burger wouldn't be possible without genetic engineering (September 2017) https://www.salon.com/2017/09/03/the-impossible-burger-would-not-be-possible-without-genetic-engineering_partner-2/
22. ASU Now – ASU prof hosts video contest to bolster science communication (August 2017) <https://asunow.asu.edu/20170803-solutions-asu-prof-hosts-video-contest-bolster-science-communication>
23. Space.com – Planetary Protection: Contamination Debate Still Simmers (May 2017) <https://www.space.com/36708-planetary-protection-astrobiology-nasa-missions.html>
24. Scientific American – Could "Planetary Protection" Scuttle Otherworldly Exploration? (May 2017) <https://www.scientificamerican.com/article/could-planetary-protection-scuttle-otherworldly-exploration/>
25. Express – Nanotechnology among us but regulators aren't doing enough to protect humans, experts warn (March 2017) <https://www.express.co.uk/news/science/776686/nanotechnology-danger-cancer-brain-lungs>
26. KEDtalks – Risk is not just a four letter word (January 2017) <https://vimeo.com/196890016>
27. Big Picture Science – Amelia Earhart: Andrew Maynard / Inescapable Uncertainty (January 2017) <http://blog.bigpicturescience.org/2017/01/big-picture-science-amelia-earhart-andrew-maynard-inescapable-uncertainty/>

28. Big Picture Science – Skeptic Seth: Andrew Maynard / Fearing Technology (August 2015)
<http://blog.bigpicture-science.org/2015/08/big-picture-science-skeptic-seth-andrew-maynard-fearing-technology/>
29. Big Picture Science – The Me in Measles: Andrew Maynard / Accurate Data (March 2015)
<http://blog.bigpicture-science.org/2015/03/big-picture-science-the-me-in-measles-andrew-maynard-accurate-data/>
30. Big Picture Science – Tale of the Distribution: Andrew Maynard / Risk Assessment (October 2014)
<http://blog.bigpicture-science.org/2014/10/big-picture-science-tale-of-the-distribution-andrew-maynard-risk-assessment/>
31. Michigan Radio – Here's why so few people get flu shots (October 2014)
<https://www.michiganradio.org/post/heres-why-so-few-people-get-flu-shots>
32. University of Michigan School of Public Health: Think Small (as in Nano Small). (May 2012).
<https://www.youtube.com/watch?v=p77fzbfNyes>
33. Discovery – Nanotech Risks (April 2009) <https://www.youtube.com/watch?v=qc0KLV8CW08>
34. Discovery – Nanotech Rewards (April 2009) https://www.youtube.com/watch?v=yYXWHVZU0_g

Interplanetary Community in a Box Project (Medium – <https://medium.com/interplanetary-community-in-a-box-initiative>)

The Interplanetary Community in a Box Project is a multi-author Medium publication with Maynard as Editor-in-Chief, that is designed to kick-start conversations around off-world community building.

Medium (<https://2020science.medium.com/>)

Since 2014 Maynard has published over 100 thought pieces on the platform Medium.

2020 Science (2007 – 2019) (<http://2020science.org>)

2020 Science was a personal blog exploring emerging technologies and responsible innovation. It was archived in 2019 as Maynard focused increasingly on other communication platforms.

Mind the Science Gap (<http://mindthesciencegap.org>)

Mind the Science Gap was launched in 2012 as a unique approach to helping public health graduate students at the University of Michigan hone their science communication skills, and ran until 2014. While active, it had nearly 400 posts, over 4000 comments, and half a million page views.

INVITED LECTURES AND ADDRESSES - SELECTED

A selection from over 250 invited lectures, talks and presentations:

1. The Matrix: Public film showing and panel discussion moderated by Andrew Maynard, at the Majestic Cinema, Tempe (12/10/21)
2. El Paso Space Festival: Nerd Night showing of Contact, with introduction and commentary by Andrew Maynard. (9/22/21)
3. National Academies of Science and Los Alamos National Laboratory Harnessing Transformational Technologies Symposia Series: AI and the Art of Manipulation – How We Need to Think Differently About AI as We Develop Socially Responsible Applications (7/20/21)
4. ATP Bio invited lecture (University of Minnesota): Creating Value in a Complex World (6/29/21)
5. 2021 FRANKx Lecture, ASU: Bounded Infinities, Quantum Tunneling, and the Future of Education (3/19/21)
6. Invited presentation at ISTAS20: Living on the Edge of Tomorrow: A Moviegoer's Guide to Public Interest Technology (11/12/20)

7. Security and Sustainability Forum, moderator for panel discussion” Prove I Made a Low Carbon Choice – Can smart systems do this? (10/28/20)
8. Invited comments to the National Academies of Science, Engineering and Medicine Committee on Science, Technology, and Law (10/2/20)
9. Arizona MedTech Summit, keynote address: Living on the Edge of Tomorrow: A Moviegoer’s Guide to MedTech? (8/26/20)
10. ANSI Nanotechnology Standards Panel, invited remarks on advanced materials (8/20/20)
11. ILSI NA Annual Meeting: Panel Discussion on Trust in Science (moderator) (7/23/20)
12. Phoenix Arts, Science & Culture Salon (Spirit of the Senses): Future Rising (5/21/20)
13. AZ Tech Council Med Tech Roundtable – presenter (5/19/20)
14. Preparing Future Minority Faculty 2020 Symposium, North Carolina Agricultural and Technical State University: Rethinking the “Pipeline” – Thoughts on Thriving as a STEM PhD (with Elizabeth Garbee) (5/14/20)
15. AME Digital Culture series (ASU): Future Rising: A Journey from the Past to the Edge of Tomorrow (2/27/20)
16. KEEN National Conference: Thin Different: New Tools for Creating Value in an Uncertain World (1/4/20)
17. Arizona Biosecurity Workshop: Innovative ways of thinking about risk in emerging technologies (12/5/19)
18. Phoenix Arts, Science & Culture Salon (Spirit of the Senses): Films from the Future (12/4/19)
19. Waymo: Fireside chat with Governor Doug Ducey (9/19/19)
20. Arizona STEM & Innovation Summit: Pardon my science! (9/17/19)
21. Marsh Digital: Thinking Differently About Risk (7/15/19)
22. ILSI North America: A Moviegoer’s Guide to Responsible and beneficial Innovation (6/24/19)
23. Phoenix Fan Fusion: Multiple panels (5/24/19)
24. Governance of Emerging Technology and Science: Films from the Future (5/22/19)
25. CSPO 20th anniversary: Sci-Fi Snug (5/9/19)
26. Film Bar: Introduction to Planet of the Apes (4/25/19)
27. Let’s Talk Self-Driving: A Fireside Conversation with Waymo’s Tekedra Mawakana (4/11/19)
28. Emerge 2019: Engines of Desire (3/30/19)
29. ASU Law & Society Salon: The Future: Insights from Sci-Fi Films. 1/31/19
30. CES panel *Balancing the speed of innovation and regulation*. Las Vegas 1/9/19
31. Sparks & Honey Daily Briefing—Films from the Future and Cultural Trends. New York City, NY. 12/13/18
32. Films from the Future: What Sci-Fi Movies Can Teach Tech Companies About Socially Responsible Innovation. Tech 2025, Brooklyn NY, 12/13/18
33. Films from the Future: Can science fiction movies really teach us anything about technology innovation? NEXT Conference, San Francisco. 12/5/18
34. The Moviegoer’s Guide to the Future. Alamo Draft House Cinema, Tempe AZ. 11/27/18
35. Base Code: How convergent technologies are transforming the future of sustainable materials, and the challenges and opportunities they in turn present. McGill’s Sustainability Sciences Initiative Annual Symposium, Montreal, Canada. (10/23/18)
36. Humility is not a four-letter word. ASU Grad College Knowledge Impact Awards Keynote. 4/26/18
37. Risk Innovation: The roles of creativity, imagination, and rigor, in exploring future pathways around existential risk. Cambridge Conference on Existential Risk, Cambridge UK, 4/18/18
38. Presentation to a meeting of the National Academies of Science Board of Lifesciences Annual Meeting, on risk, 11/30/17
39. Workshop leader, workshop on agile governance at the World Economic Forum Annual Meeting of the Global Future Councils, Dubai, 11/9/17

40. Workshop on Agile Governance, World Economic Forum Annual Center for the Fourth Industrial Revolution, 9/25/17
41. Presentation to the National Academies of Science Meeting of Experts: Planetary Protection and Terrestrial Contamination Requirements Associated with Sample Caching and Return. 7/31/17
42. Interdisciplinary Perspectives on Complex Risk Analysis Relevant to Emerging Technologies. Presentation to the National Academies of Science Committee to Review Planetary Protection Policy Development Processes, 6/27/17
43. Swiss National Science Foundation: Invited keynote on the culmination of the NRP 64 program on Opportunities and Risks of Nanotechnology. 6/2/17
44. Planetary Protection: Assessing the Risks. A Community Conversation. Plenary at the 2017 Astrobiology Science Conference 4/24/17
45. Risk Communication & Talking to the Public About Chemicals. Panel at GlobalChem 2017, 2/24/17
46. Emerging technologies and their applications – a presentation to the United Nations Expert Meeting on Exponential Technological Change, automation, and their policy implications for sustainable development, 12/6/16
47. Innovating for Social and Economic Success. NEWT Science Seminar, 11/28/16
48. The Future of Zika. Event hosted by the School for the Future of Innovation in Society, 11/9/16
49. American Industrial Hygiene Association Fall Conference. Risk Innovation and the Workplace of the Future. 10/25/16
50. Responsible Industry workshop, Berlin: Responsible Research and Innovation ^[1] A US Perspective. 6/22/16
51. Future Tense: Engineering Away Disease (panel discussion). 2/23/16
52. AAAS 2016 Annual Meeting. Moderating panel on Public Engagement and Risk Communication: Case Study of Synthetic Biology. 2/11/16
53. World Economic Forum Summit on the Global Agenda. Panel discussion on the Fourth Industrial evolution. 10/26/15. <https://www.youtube.com/watch?v=Oj3a7O-73bY>
54. NanOEh conference, South Africa. Plenary Presentation “Responsible Innovation and Nanotechnology”. 10/18/15
55. Notre Dame University. Invited lecture “Is responsible nanotechnology doomed to failure?” 10/27/14
56. Royal Society of London meeting on bio-nano interactions: new tools, insights and impacts. Invited lecture: “Innovative approaches to emergent risks”. 5/1/14
57. National Academy of Sciences Forum on Synthetic Biology invited presentation: “Innovative approaches to emergent risks” 3/13/14
58. World Economic Forum Annual Meeting of the New Champions, Dalian China. Panelist “Building the 21st century regulatory system” 9/12/13
59. Argentinean Foundation of Nanotechnology. “Thinking critically and imaginatively about the challenges of sophisticated materials” 10/30/12
60. 2012 Arnold Small Lecture, Human Factors and Ergonomics Society Annual Meeting. “From the nanoscale to the human scale: Connecting nanotechnology and human factors” 10/24/12
61. Harvard University. “The new science of sophisticated materials: Nanomaterials and beyond” 4/13/12
62. Swiss National Science Foundation. “The new science of sophisticated materials: Nanomaterials and beyond” 3/3/11
63. World Economic Forum Annual Meeting, Davos. Challenge to the panel. “The science agenda in 2011” 1/26/11
64. Cincinnati Contemporary Arts Center. “Small Gods... and the art of technology innovation” 12/11/10
65. University of Cambridge Center for Research in the Arts, Social Sciences and Humanities (CRAASH). 6/1/10 “Governing emerging technologies under conditions of uncertainty”
66. Johnson & Johnson. “Effective evidence-based communication strategies. Lessons from nanotechnology” 5/19/10

67. Wisconsin Assembly Committee on Public Health. "Nanotechnology. Opportunities and challenges." 10/6/09
68. Brookings Institution. "Controlling wayward science: Dangers of unanticipated consequences." 6/19/09
69. Transatlantic Consumer Dialogue. "Nanomaterials and consumer products. A perspective from the US." 6/10/08
70. International Joint Commission. "Nanotechnology in perspective. New technologies, new challenges?" 3/30/09
71. Oxford University. "Rethinking science and technology innovation for the 21st century: A nanoscale perspective." 3/12/09
72. Royal Society. Briefing on Synthetic Biology 10/17/08
73. European Aerosol Conference. "Developing Responsible Nanotechnologies. An Aerosol Perspective." 8/28/08
74. Gothenburg University, Gothenburg, Sweden. "Managing the Small Stuff. Ensuring the success of safe nanotechnologies." 5/13/08
75. Swedish Academies of Science. "Smart Science. Challenges and opportunities in the race to develop safe nanotechnologies." 5/12/08
76. New York Academy of Sciences. "Nanotechnology. Science, society and policy." 5/14/07
77. Nanoscience Centre, University of Cambridge, UK. "Nanotechnology and potential risk. Challenges to measuring exposure to engineered nanomaterials." 05/05/07
78. Johns Hopkins University. "The science of nanotechnology and public health" 4/10/07
79. Health Effects Institute annual conference. "Nanoparticles from manufacturing." 4/16/07
80. CalEPA. "Nanotechnology. Maximizing the benefits. Minimizing the risks." 3/8/07
81. Senior Management at the Hong Kong Department of Labor. "Nanotechnology benefits and challenges." 2/8/07
82. Rabobank North American Agribusiness Advisory Board. "Nanotechnology. Why should you care?" 1/30/07
83. University of Virginia. Invited comments on the Opening ceremony for Wilsdorf Hall. 11/10/06
84. NATO ARW, Bulgaria. "Nanotechnology: Overview and issues." 8/13/06
85. The Conference Board. "Nanotechnology. An introduction to the technology, and its EH&S implications." 06/08/06
86. Warner Lecture, British Occupational Hygiene Society. "Nanotechnology: The next big thing, or much ado about nothing?" 04/25/06
87. Robert and Floretta Austin Distinguished Lecture in Science. University of Idaho, Moscow. "Nanotechnology: The next big thing, or much ado about nothing?" 04/17/06
88. Institute of Occupational Safety and Health (IOSH), Taiwan. "Working at the Nanoscale. Nanotechnology and Potential Occupational Health Risk" 01/05/06
89. Academia Sinica, Taiwan. "Nanotechnology: Environment, Safety and Health." 01/04/06
90. Asia Nanotechnology Forum. "Assessing the environmental safety and human health risk of emerging nanotechnologies" 12/9/05
91. Australian Institute for Occupational Hygiene. "Engineered Nanomaterials and Occupational Health" 12/4/05
92. Society Of Toxicology. "Engineered Nanomaterials and Occupational Health" 11/2/05
93. NASA. "Nanotechnology: Overview and relevance to Occupational Health" 10/21/05
94. National Academies of Science, Chemical Sciences Round Table. "Nanotechnology: Opportunities and Challenges in a Changing World." 09/21/05
95. American Industrial Hygiene Association "Nanotechnology: Overview and Relevance to Occupational Health. 09/14/05
96. EPA. "Nanotechnology and Occupational Health." 6/13/05

97. Korean Society of Toxicology. "Nanotechnology and occupational health – addressing potential health risks." 5/13/05
98. American Association for the Advancement of Science. "Nanoaerosol exposure. Generating and characterizing airborne nanoparticles." 2/20/05
99. American Chemistry Council. Nanotechnology and Occupational Health. "Ensuring a safe and healthful workforce in a changing environment." 10/24/04
100. NIOSH Board of Scientific Councilors. "The NIOSH Nanotechnology Initiative. Ensuring a safe and healthful workforce in a changing environment." 10/21/04
101. California Department of Health Services". Perspectives on a 'small' problem. Nanotechnology and Occupational Health." 3/25/04
102. Scandinavian Electron Microscopy Conference. "From Nuisance dusts to Nanoparticles. The Role of Electron Microscopy in Occupational and Environmental Health." 6/13/03
103. Royal Society. "Overview of methods for analyzing single ultrafine particles." 3/15/00

RESEARCH SUPPORT (Post 2010)

Risk Innovation Accelerator

Funding: ASU, 2017 – 2019

Role: Principle Investigator

Direct Costs: \$250,000

Nanosystems Engineering Research Center for Off-Grid Nanotechnology Enabled Water Treatment (NEWT).

Funding: NSF 2015 – 2025

Role: Investigator

Center for Ingredient Safety and Risk Assessment-Risk Communications Subcontract

Funding: Michigan State University 2014 – 2017

Role: Principle Investigator

Direct costs: \$370,149

Designing a "Solution-Focused" Governance Paradigm for SynBio: Case Studies of Improved Risk Assessment and Creative Regulatory Design

Funding: Alfred P Sloan Foundation (via University of Pennsylvania subcontract) 2013 - 2014

Role: Participating Investigator

Direct costs (personal): \$7,964

Seminar series: Information Communication through Data Visualization

Funding: University of Michigan OPR. 2012 – 2013

Role: Principle Investigator

Direct costs: \$7,500

Workshop: A roadmap for developing and implementing minimum nanomaterial characterization reporting requirements within regulatory and development communities

Funding: NSF CBET-1239092. 2012 – 2013

Role: Principle Investigator

Direct costs: \$29,500

Modulation of immune-GI function by nanoAg. The goal is to better understand the mechanisms by which ingested engineered nanomaterials interact with the GI tract and the microbiome, and impact on further organs and systems.

Funding: NIEHS, U01. 2010 - 2015

Role: Co-Investigator

Direct costs: \$387,276.00

Support for 2011 Risk Science Symposium. 2011

Funding: Sloan Foundation (B2011-23) 2011

Role: Principle Investigator

Direct costs: \$20,000

University of Michigan Risk Science Center

Funding: Private Donation

Role: Director (2010 – 2015)

Direct costs: ~\$5M