



Braden Allenby



Professor
Sch Sustain Engr & Built Envrn
Faculty

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Bio

Professor
Lincoln Professor of Engineering and Ethics
Professor of Law
Department of Civil and Environmental Engineering
Ira A. Fulton School of Engineering

Braden R. Allenby is currently Lincoln Professor of Engineering and Ethics, and Professor of Civil and Environmental Engineering, and of Law, at Arizona State University, having moved from his previous position as the Environment, Health and Safety Vice President for AT&T in 2004. He is also a Batten Fellow in Residence at the University of Virginias Darden Graduate School of Business Administration, and a Fellow of the Royal Society for the Arts, Manufactures & Commerce. Dr. Allenby received his BA from Yale University in 1972, his J. D. from the University of Virginia Law School in 1978, his Masters in Economics from the University of Virginia in 1979, his Masters in Environmental Sciences from Rutgers University in the Spring of 1989, and his Ph.D. in Environmental Sciences from Rutgers in 1992.

Expertise

Earth Systems Engineering and Management Industrial Ecology Science and Technology Policy

Education

1992, Ph.D. Environmental Sciences, Rutgers University

1978, JD, University of Virginia

1972, BA Environmental Studies, Yale University

Courses

Spring 2010

COURSE NUMBER	COURSE TITLE
CEE 400	Earth Systems Engr & Mgmt
CEE 581	Adv Earth Systems Engr&Mgmt
CEE 790	Reading and Conference
CEE 792	Research
FSE 194	Special Topics : Technology, Society, Sustainab
SOS 552	Adv Earth Systems Engr&Mgmt
SOS 559	Sustainable Tech&Mgmt Capstone

Fall 2009

COURSE NUMBER	COURSE TITLE
CEE 400	Earth Systems Engr & Mgmt
CEE 581	Adv Earth Systems Engr&Mgmt
CEE 582	Industr Ecol & Design for Sust
CEE 591	Seminar : Environmental Engineering
CEE 595	Continuing Registration
CEE 792	Research
CEE 795	Continuing Registration
FSE 194	Special Topics : Technology, Society, Sustainab
SOS 515	Industr Ecol & Design for Sust
SOS 559	Sustainable Tech&Mgmt Capstone

Spring 2009

COURSE NUMBER	COURSE TITLE
CEE 400	Earth Systems Engr & Mgmt
CEE 581	Adv Earth Systems Engr&Mgmt
CEE 590	Reading and Conference
CEE 792	Research
CEE 799	Dissertation
SOS 552	Adv Earth Systems Engr&Mgmt
SOS 598	Special Topics : Sustnble Tech&Mgmt Cert Cap

Fall 2008

COURSE NUMBER	COURSE TITLE
CEE 400	Earth Systems Engr & Mgmt
CEE 595	Continuing Registration
CEE 598	Special Topics : Adv Earth Systems Engr & Mgmt
CEE 598	Special Topics : Ind Ecology&Design for Sustain
CEE 792	Research
CEE 799	Dissertation
SOS 792	Research

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Publications and Other Intellectual Contributions

Eric Williams, Braden Allenby, Edward Kavazanjian. Environmental, social and economic implications of global reuse and recycling of personal computers. *Environmental Science & Technology* (2008).

Cliff Davidson, Cynthia Murphy, Sharon Austin, Chris Hendrickson, H. Scott Matthews, Eric Williams, M. Bridges, Braden Allenby, John Crittenden, Yongsheng Chen, David Allen. Adding Sustainability to the Engineer's Toolbox: A Challenge for Engineering Educators. *Environmental Science & Technology* (2007).

Graedel, T E, Allenby, Braden Richard. *Industrial Ecology*. Hansan Publishing Company (2006).

Allenby, Braden Richard. *Reconstructing Earth: Technology and Environment in the Age of Humans*. Island Press (2005).

Allenby, Braden Richard, Graedel, T E. *Industrial Ecology*. Tsinghua University Press (2005).

Book chapter: Allenby, Braden Richard. *Engineering the Earth. Environmentalism and the Technologies of Tomorrow*. Island Press (2005).

Book chapter: Allenby, Braden Richard. *Technology at the Global Scale: Integrative Cognitivism and Earth Systems Engineering and Management. Scientific and Technological Thinking*. Lawrence Erlbaum Associates, Inc (2005).

Book chapter: Allenby, Braden Richard. *Engineering and Ethics for an Anthropogenic Planet. National Academy of Engineering, Emerging Technologies and Ethical Issues in Engineering*. National Academy Press (2004).

Book chapter: Allenby, Braden Richard. *Infrastructure in the Age of Earth Systems Engineering and Management. Digital Infrastructures*. Routledge (2004).

The intellectual contributions listed above were extracted and displayed with permission from the ASU KnowledgeNet.

Presentations

Allenby, Braden Workshop on Ambient Atmosphere Air Capture. Contributed (Jul 2007).

Allenby, Braden The Future of Civil and Environmental Engineering: Complex Systems and the Anthropogenic Earth. Workshop on Frontier Research Directions in Civil and Environmental Engineering. Contributed (Jun 2007).

Allenby, Braden Complexity, Sustainability, and the Anthropogenic Earth. Plenary keynote. Contributed (Jun 2007).

Allenby, Braden Policy Implications of Technological Convergence. Gordon Conference on Science and Technology Policy. Contributed (Aug 2006).

Allenby, Braden Building the Sustainable Engineering Community. Center for Sustainable Engineering Workshop. Contributed (Jul 2006).

Allenby, Braden What is Sustainable Engineering. Center for Sustainable Engineering

Workshop. Contributed (Jul 2006).

Allenby, Braden What is Sustainable Engineering?. Keynote Lecture. Contributed (Jul 2006).

Allenby, Braden Cognition in the Future. Public Lecture. Contributed

Allenby, Braden The Theological Foundations of the Environmental, Technological and Sustainability Discourses. Invited sermon. Contributed

Allenby, Braden Transhumanism and the Sacred. Invited Templeton Fellow lecture. Contributed

Allenby, Braden Transhumanism, the Enlightenment, and the Future of the Human. Invited Templeton Fellow lecture. Contributed

Allenby, Braden Understanding the Social and Environmental Dimensions of Nanotechnology. Nanotechnology Roundtable. Contributed

Allenby, Braden Business Decision-Making and Innovation in an Environmentally Constrained World. Invited Lecture. Contributed

Allenby, Braden Earth Systems Engineering and Management for the Business Student. Invited lecture. Contributed

Allenby, Braden Earth Systems Engineering and Management: Challenges to Current Sustainability Paradigms. Invited Lecture. Contributed

Allenby, Braden Earth Systems Engineering and Management: Practicing Technology in the Anthropocene. Colloquium Lecture. Contributed

Allenby, Braden Earth Systems Engineering and Management: The Future of Civil Engineering?. Invited Lecture. Contributed

Allenby, Braden Earth Systems Engineering and Management: Understanding the Nexus of Industrial Activity and Global Systems. Invited Lecture. Contributed

Allenby, Braden Engineering for the 21st Century: Managing Humanity's Relationship with the Environment. Invited Lecture. Contributed

Allenby, Braden Entrepreneurship in the Anthropocene. Invited Lecture. Contributed

Allenby, Braden Ethical Dimensions of Earth Systems Engineering and Management. Invited Lecture. Contributed

Allenby, Braden Sustainability and Beyond, Executive education program. Educational module on earth systems engineering and management (4 hours). Contributed

Allenby, Braden Technological and Natural Systems in the Anthropocene. Invited Lecture. Contributed

Allenby, Braden Technology in the Anthropocene. Invited Lecture. Contributed

Allenby, Braden Technology, Industry, and the Anthropocene. Invited Lecture. Contributed

Allenby, Braden The 2020 Vision for Space – and the Terraformed Earth. Topics in Engineering Workshop 2004. Contributed

Allenby, Braden The Construction of an Anthropogenic Planet: Earth Systems Engineering and Management. Invited Lecture. Contributed

Allenby, Braden The Implications of Technological Evolution for Global Health Patterns. Invited Presentation. Contributed

Allenby, Braden Design for Resilience: Complexity and Urban Systems. Keynote speech and Public Lecture. Contributed

Allenby, Braden Earth Systems Engineering and Management. Workshop on Trading Zones and Interactional Expertise. Contributed

Allenby, Braden Perspectives on Human Enhancement. Science Workshop on Human Enhancement. Contributed

Allenby, Braden Sustainable Engineering in the Anthropocene. Invited Lecture. Contributed

Allenby, Braden Sustainable Engineering: Natural and Human Systems in the Anthropocene. Humanist Society of Greater Phoenix. Contributed

Allenby, Braden Technology, Nature, and Society: Industrial Ecology to Earth Systems Engineering and Management. Invited lecture. Contributed

Allenby, Braden Panelist and Review Expert. Contributed

Allenby, Braden An Environmentalism for the 21st Century. Visiting lecture. Contributed

Allenby, Braden Corporate Planning and Innovation in Emerging Urban Networks. Keynote Lecture, Meeting the Sustainability Challenge. Contributed

Allenby, Braden Designing Material Systems in the Anthropocene. AIChE Annual Conference, Plenary Session I. Contributed

Allenby, Braden Earth Systems Engineering for Sustainability. Invited Lecture. Contributed

Allenby, Braden Engineering for the 21st Century: The Role of the IEEE. Keynote Lecture. Contributed

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Service

IEEE Technical Committee on Electronics and the Environment, Chair (2007 - present)

Ira A. Fulton School of Engineering, GIOS Liaison (2006 - present)

Center for Nanotechnology in Society, Executive Committee Member (2006 - 2008)

School of Sustainability, Member, Executive Committee (2006 - 2008)

IEEE/Care Innovation/Eco Design joint conference, Steering and Advisory Board (ended 2008)

AAAS Committee on Science, Engineering and Public Policy, Chair, reappointed (2006 - 2007)

Ira A. Fulton School of Engineering, Faculty Senate (2006 - 2007)

Academic Senate, Member (ended 2007)

Arizona Product Development and Management Association Annual Conference, Member, Planning Committee (ended 2007)

IEEE International Symposium on Electronics and the Environment, Co-chair (2007)

AAAS panel on Sustainable Engineering Education, AAAS Annual Conference, Organizer (2007)

Academic Senate Task Force on Classified Research, Member (ended 2006)

Civil and Environmental Engineering, Member, Search Committee (ended 2006)

Civil and Environmental Engineering/Global Institute of Sustainability, Member, Search Committee (ended 2006)

Consortium for Science Policy Outcome, Member, Search Committee (ended 2006)

Global Institute of Sustainability Studies, Member, Academic Programs Committee (ended 2006)

Global Institute of Sustainability, Member, Planning Committee (ended 2006)

Lincoln Professor hire, ASU Polytechnic campus, Member, Search Committee (ended 2006)

IEEE International Symposium on Electronics and the Environment, Co-chair (2006)

Workshop on the Policy Implications of Cognitive Enhancement Technologies, Arizona State University, Organizer (2006)

California Polytechnical Institute Center for Sustainability in Engineering, Member, Advisory Board (ended 2006)

Sustainability Science, Associate editor-in-chief (ended 2005)

University of Illinois at Chicago Institute for Environmental Science and Policy, External

Advisory Board, Appointed member, second term (ended 2005)
AAAS Forum on Science and Technology Policy, Moderator and Discussant (ended 2004)
AAAS Committee on Science, Engineering and Public Policy, Past Chair
Clean Technologies and Environmental Policy, Member, Editorial Board
Culture and Communication, The University of Virginia Engineering Division of Technology, Member, Advisory Board
DOE Task Force on Alternative Futures for the DOE National Laboratories, Former Member, Advisory Board
DOE/DOD/EPA Strategic Environmental Research and Development Program, Former Member, Advisory Board
Engineers Without Borders, Member, Advisory Board
Environmental Quality Management, Member, Editorial Board
IEEE Technical Committee on Electronics and the Environment, Chair
National Environmental Education and Training Foundation, Trustee
Secretary of Energy, Former Member, Advisory Board
Technology and Society, Member, Editorial Board
The Bulletin of Science, Member, Editorial Board
The Environmental Law Institute Forum, Member, Advisory Board
The Journal of Industrial Ecology, Member, Editorial Board
The Journal of Sustainable Product Design, Member, Editorial Board
The University of Michigan Erb Environmental Management Institute, Member, Advisory Board

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