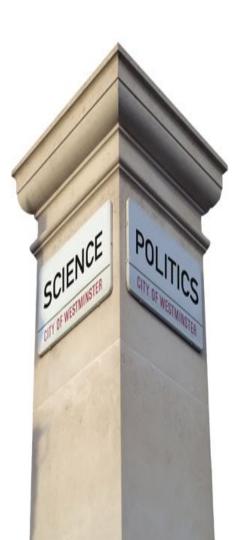
# The science of scientific advice

James Wilsdon,
Science Policy Research Unit (SPRU),
University of Sussex (UK)
@jameswilsdon
j.wilsdon@sussex.ac.uk

OECD Global Science Forum
Workshop on Scientific Advice
for Policymaking,
Tokyo, 22/23 October 2013



# Scientific advice has never been in greater demand; nor has it been more contested

From climate change to cyber-security, poverty to pandemics, food technologies to fracking, the questions being asked of scientists, engineers, social scientists and other experts continue to multiply. At the same time, the authority and legitimacy of these experts is increasingly scrutinised...In this talk, I want to:

- Outline some of the most striking recent developments in institutions and processes of scientific advice around the world;
- Highlight current debates, tensions and areas of opportunity in national & international advisory systems;
- Propose ways of improving and making more systematic 'the science of scientific advice'.













# COMMENT

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# Beyond the great and good

Chief scientific advisers need better support and networks to ensure that science advice to governments is robust, say Robert Doubleday and James Wilsdon.

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"The theory and analysis of scientific advice needs to better inform its practice. There is now a wealth of empirical research into how advisory processes operate...scientific advisers would benefit from processes of learning and reflection that are more systematic....

Stronger international networks are required for CSAs to exchange ideas. The main forum is currently the Carnegie Group of Science Advisers, which was established in 1991 to enable CSAs and science ministers from the G8 nations to meet annually...A more open global network is now required."

Nature Vol. 485: 301, 17 May 2012

# **FUTURE** DIRECTIONS FOR SCIENTIFIC ADVICE IN WHITEHALL

# In the UK:

Sir Mark Walport took over on 1 April 2013; 11<sup>th</sup> GCSA since 1964;

Departmental CSAs now in every government department;

Scientific advice, evidence-based policy & civil service reform.





April 2013





Edited by Robert Doobleday and James Wilsdon









# JOSÉ MANUEL BARROSO

# President of the European Commission

European Commission > The Commissioners (2010-2014) > President > Chief Scientific Adviser

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CHIEF SCIENTIFIC ADVISER

# CHIEF SCIENTIFIC ADVISER



Welcome to my website which will provide you with some background on my role and on me and my team.

It is an enormous pleasure for me to be the first Chief Scientific Adviser to the President of the European Commission and to be in a position to talk about the excellence in science, engineering and technology that is generated across Member States. Our big challenge in Europe is translating that knowledge into better environments, better health, more rewarding lifestyles and a sustainable future and I look forward to contributing to this effort.

I would also like to convey that science is a fundamental part of our culture in Europe, it's exciting, it's full of opportunity and also fun.

I look forward to working with as many people as possible to deliver our common goal for the European Union. We can remind ourselves that Europe, through science, engineering, technology and philosophy, invented the modern world and it's also in our power to invent the future.

Professor Anne Glover CBE



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'For governments, the advantage of having a government science adviser is to speak to one person, ideally close to the respective head of government, who serves as a knowledge broker and is able to synthesise the scientific evidence in easy-to-understand terms... A precondition for this relationship to work is that the person chosen as science adviser is credible, respected and trusted both in the scientific community and in government...

[S/he] is a "voice of science" also in the public sphere, and promotes a positive image of science and technology, while promoting public dialogue about the evidence.'

'The Value of a Network of National Science Advisers', EC BEPA, Sept 2013

# Scientific advice across the EU member states

"Everything is in flux"

EC itself and 3 member states (UK, Ireland and Czech Republic) have CSAs;

In other member states (e.g. Denmark, Poland, Hungary) the role is fulfilled by President of the National Academy of Science;

Others (e.g. Germany) have one or more science advisory boards;

Slovakia has recently appointed a 'Plenipotentiary of the Slovak Government for the Knowledge Economy';



Spain and Sweden have nominated senior Ministry representatives to play this role;

France is "thinking about" a CSA;

Anne Glover presented the idea of an EU network of government science advisers at the Competitiveness Council in Dec 2012.

The idea received strong support. The network will be launched as soon as 10 EU Member States have appointed one (probably before the end of 2013).



# White Paper on Science and Technology





# POLICYFORUM

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# Rebuilding Public Trust in Science for Policy-Making

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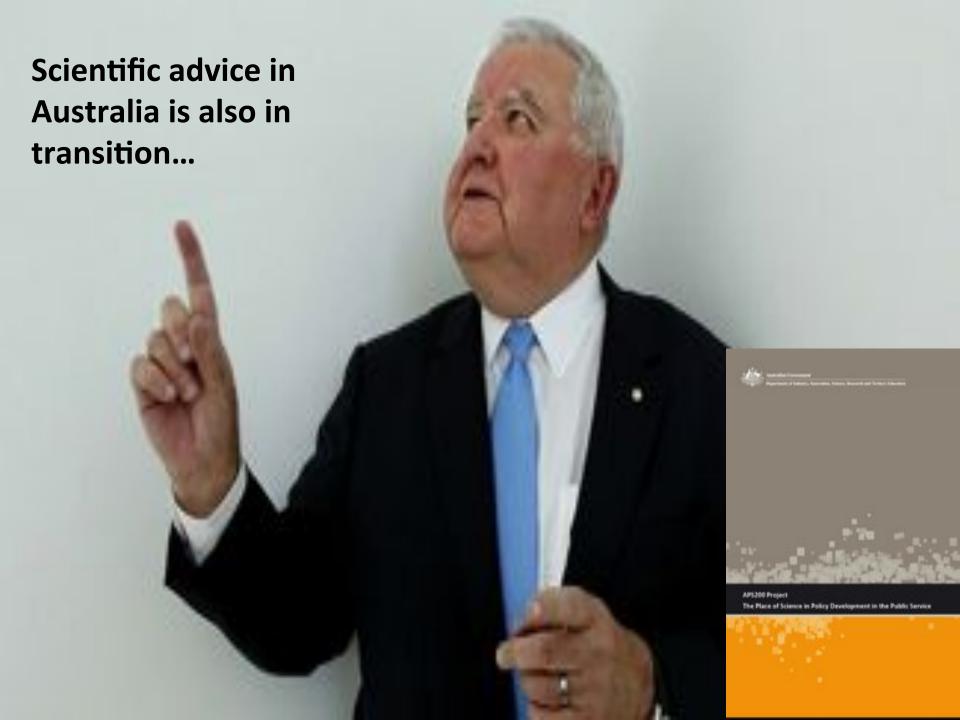
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UNIC/Vibbuti Sharma

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- The UN high-level political forum aims to get more science into the SDGs.
- It replaces a UN commission that was set up in 1992 but whose influence waned.
- Despite an inaugural meeting, the forum needs to have its exact work defined

# 03/10/13

# Yojana Sharma



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25 09 2013 - ODG

# UN Secretary-General Calls on UNESCO to Establish Scientific Advisory Board

To inform the debate on sustainable development, UN Secretary-General Ban Ki-moon announced on the first day of the UN General Assembly (24 September) his decision to create a Scientific Advisory Board that he entrusted UNESCO's Director-General to establish.

He made the announcement during the inaugural meeting of the High Level Political Forum on Sustainable Development, a platform created to realize the vision adopted at Rio +20. "The forum can be a catalyst for a strengthened global partnership for sustainable development, providing political leadership grounded in solid science," said Mr Ban, also underlining the need to strengthen the interface between science and policy in order to ensure that the latest scientific findings are reflected in policy discussions.

The Secretary-General said the Board would be comprised by renowned scientists representing various fields of natural, social and human sciences, and underlined the need to strengthen the interface between science and policy so that the latest scientific findings are reflected in high level policy discussions.

He also indicated that UNESCO would host the Secretariat of this Scientific Advisory Board.

# RELATED INFORMATION

### PAGES

 Director-General of UNESCO, Irina Bokova

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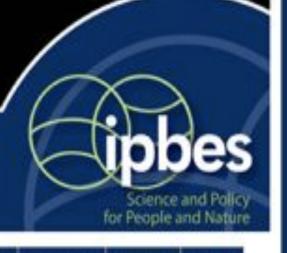
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# In Focus

IPBES-2 on 9-14 December 2013, Antalya, Turkey, Annotated agenda available here.

Members views on the admission of new observers by 25 November, More here.

Follow this link to apply for a visa to attend IPBES-2.

# IPBES Membership

IPBES now counts 114 Members, with Madagascar recently joining. The full list of current IPBES Members is available here.

## Latest News

# Announcement on the IPBES-2 venue

Created on Friday, 37 September 2003 13:37

The second Plenary session of the intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services will be held at Rixos Sungate Hotel, Antalya, Turkey. For details of the accommodation reservation with the hotel, please see here.

# Draft agenda for the stakeholder meeting at IPBES-2 available

Created on Turnibu, Cl. October 2013 09:56

A draft agenda's available for the stakeholder meeting to be held shead of IPBES-2, on 7 and 8 December 2013 in Antalya. Please see here for further detail of the meeting.

# Report from the Indigenous Local Knowledge Workshop now available

Consted on Narodia, 34 September 2013 10:50

# InterAcademy Council

# eview of the IPCC

An evaluation of the procedures and processes of the InterGovernmental Panel on Climate Change



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The InterAcademy Council conducted an independent review of the processes and procedures of the Intergovernmental Panel on Climate Change, Based on this review, the IAC issued a report with recommended measures and actions to strengthen IPCC's processes and procedures so as to be better able to respond to future challenges and ensure the ongoing quality of its reports.



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# Report Released August 30th

"Climate Change Assessments, Review of the Processes & Procedures of the IPCC" -InterAcademy Council report recommends. fundamental reform of IPCC management structure.



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# Latest News



### 54 May 2011

# Statement by IAC InterAcademy Council

comments on the adoption of many of committee's recommendations by IPCC on May 13 in Abu



### 29 November 2010

# Statement by Dr. Pachauri

Statement by Dr. Raiendra Pachauri at the Opening of the UNFCCC meeting (COP16), 29 November 2010. Cancun, Mexico.



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## Decisions taken by the Panel

Decisions taken by the Panel with regards to the recommendations by the InterAcademy Council.

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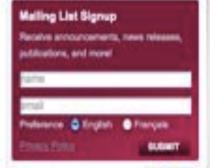
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# Jörg Hacker appointed to the United Nations Secretary-General's Scientific Advisory Board

The microbiologist Professor Jörg Hacker has been appointed to the new United Nations Secretary-General's Scientific Advisory Board. The Scientific Advisory Board was set up by the UN General Secretary Ban Ki-moon. The 26 members ...

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## Thinking, Fast and Slow

The Israell-American psychologist Daniel Kahneman, born 1994 in Tel Aviv, was awarded the Nobel Memorial Prize in Economic Sciences in 2002. On Friday, 20 September, at 8 PM, he will give the evening lecture in the context of the Leopoldina Annual Assembly 2013 ...

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21,05.13

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### **Latest News**



# IAC CO-CHAIRS' Statement on the IPCC's Fifth Assessment Report

The release today of the first part of the Fifth Assessment. Report (ARS) of the Intergovernmental Panel on Climate Change (IPCC) marks another important achievement in the advancement of climate change science.

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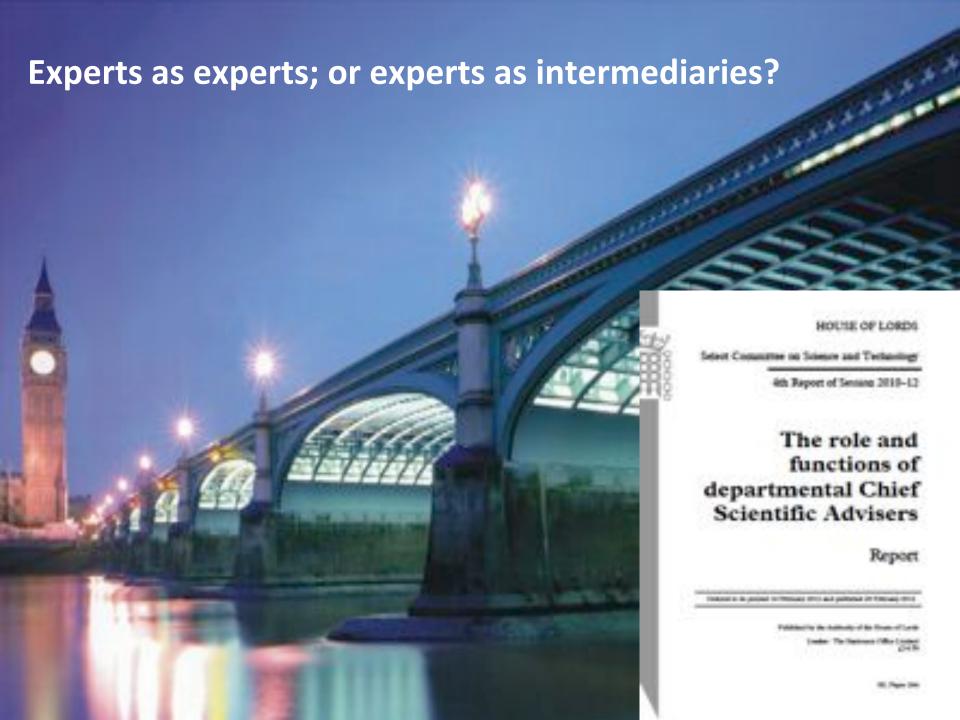
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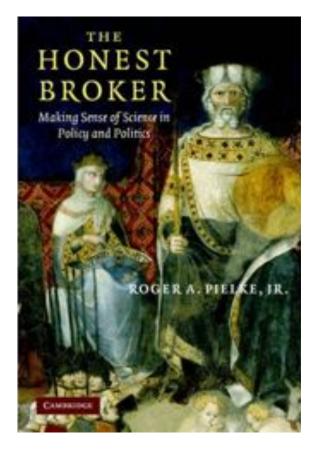


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# 4 roles for scientists in policy:

Pure scientist Science arbiter Issue advocate Honest broker

# How to recognise the politics & limitations of scientific advice?



# PHILIP E. TETLOCK

EXPERT POLITICAL UDGMENT

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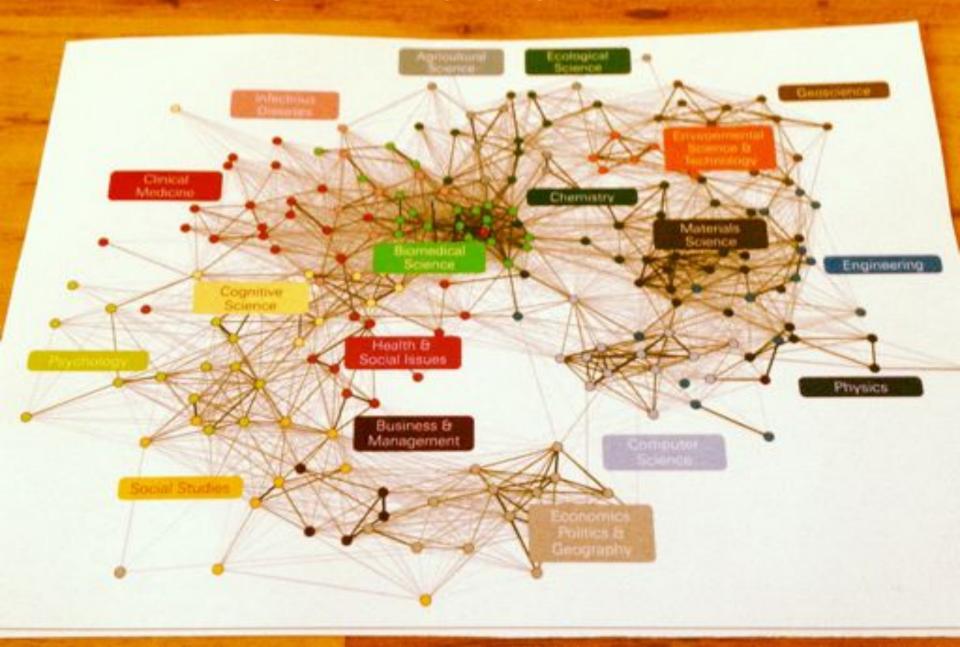
Tentile ... has the clarity of Malcolm Gladwell



Why We Debese Toom Arrest

DAN GARDNER

# How to manage the disciplinary mix?



How to link scientific advice to wider developments in evidence-based policy?



By RICHARD H. THALER Published: August 24, 2013

I HAVE <u>written here</u> before about the potential gains to government from involving social and behavioral scientists in designing public policies. My enthusiasm comes in part from my experiences as an academic adviser to the Behavioral Insights Team created in Britain by Prime Minister David Cameron.

Thus I was pleased to hear reports that the White House is building a similar initiative here in the United States. Maya Shankar, a cognitive scientist and senior policy adviser at the White House Office of Science and Technology Policy, is coordinating this cross-agency group, called the Social and Behavioral Science Team; it is part of a larger effort to use evidence and innovation to promote government performance and efficiency. I am among a number of academics who have shared ideas with the administration about how research findings in social and behavioral science can improve policy.

It makes sense for social scientists to become more involved in policy, society's most challenging problems are, in essence, behavioral. Using findings to create plausible interventions, then testing their efficacy wi controlled trials, can improve — and sometimes save — people's lives,



'Randomised controlled trials (RCTs) are the best way of determining whether a policy is working...' Haynes, Service, Goldacre, Torgerson 'Cabinet Office, June 2012

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# Test, Learn, Adapt: Developing Public Policy with Randomised Controlled Trials

'Test, Learn, Adapt' is a paper which the Behavioural Insights Tearn is publishing in collaboration with Ben Goldacre, authof Bad Science, and David Torgerson, Director of the University of York Trials Unit. The paper argues that Randomised Controlled Trials (RCTs), which are now widely used in medicine, international development, and internet-based business should be used much more extensively in public policy.

Test, Learn, Adapt' sets out nine separate steps that are required to set up any RCT. Many of these steps will be familiar anyone putting in place a well-designed policy evaluation - for example, deciding in advance the outcome that we are seeking to achieve. Others are less familiar – for example, randomly allocating the intervention to control or intervention groups.

The introduction of a randomly assigned control group enables you to compare the effectiveness of new interventions against what would have happened if you had changed nothing. RCTs are the best way of determining whether a policy o intervention is working. We believe that policymakers should begin using them much more systematically.

### **Downloads**

Test, Learn, Adapt: Developing Public Policy with Randomised Controlled Trials (pdf, 2.98mb)

File type: T PDF - Portable Document format : File size: 2.96 MB





# Enhanced SAGE Guidance

A strategic framework for the Scientific Advisory Group for Emergencies (SAGE)





# How to engage non-expert publics?



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Sciencewise - the UK's national centre for public dialogue in policy making involving science and technology issues















# Listen to part 2 of 'dialogues in a digital world' webinar

In part two of CoP webinar, 'In the goldfish bowl: science and technology policy dialogues in a digital world', Anthony Zacharzewski considers the positive consequences of digital rebellion citing the case study 'Big city plan talk' as a practical example.



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# How to move beyond risk management to embrace uncertainty, ignorance & ambiguity?

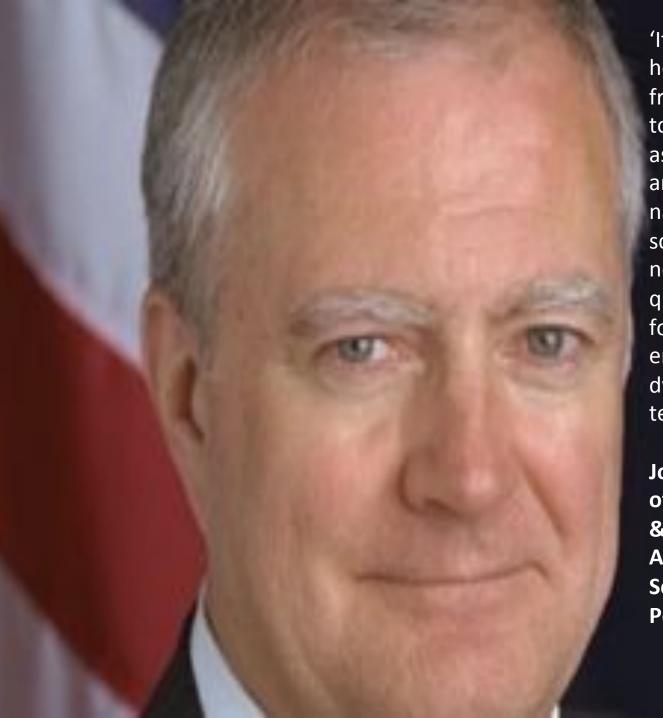




Andy Stirling (2010)

Keep it Complex.

Nature, 468. pp. 1029-1031.



'It is well to keep in mind how primitive the framework is that we use to evaluate policies and assess strength in science and technology...The nascent field of the social science of science policy needs to grow up, and quickly, to provide a basis for understanding the enormously complex dynamic of today's global, technology-based society.'

John Marburger, Director of the Office of Science & Technology Policy, 21 April 2005 AAAS Forum on Science and Technology Policy

# SCIENCE OF SCIENCE POLICY

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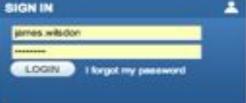
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# SoSP Central





### Welcome to the Science of Science Policy (SoSP) website

The goal of the Science of Science Policy community is to provide a scientifically rigorous and quantitative basis for science policy. The website provides a central location with news, information and research to help inform the Federal Government's science management decisions. We welcome the active engagement and participation of Federal practitioners, researchers, and others in the broader science community. Click here to learn more about SoSP.

What are your needs?

- I want to find reference materials, other publications, or connect with SoSP community members
- I want to find out about research being done by researchers in the Science of Science and Innovation Policy
- I want to find out about Science of Science Policy events
- I want to find out more about someone in the SoSP community.
- I want to find out more about SoSP.

# Create a profile to join the discussion, share your thoughts, rate contant, and pin our



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- Best Practices in Assessment of Research and Development Organizations
- The New Global Ecosystem in Advanced Computing: Implications for U.S. Competitiveness and National Security
- Copenhagen Research Forum

### Featured Events

- "Sci2 Tool: A Tool for Science of Science Research. and Practice" Tutorial
- NetSci 2013
- Atlanta Conference on Science and Innovation Policy
- Research Trends Seminar: Research Mobility & Brain Circulation: Scientific and Economic Impacts
- MPSA Conference

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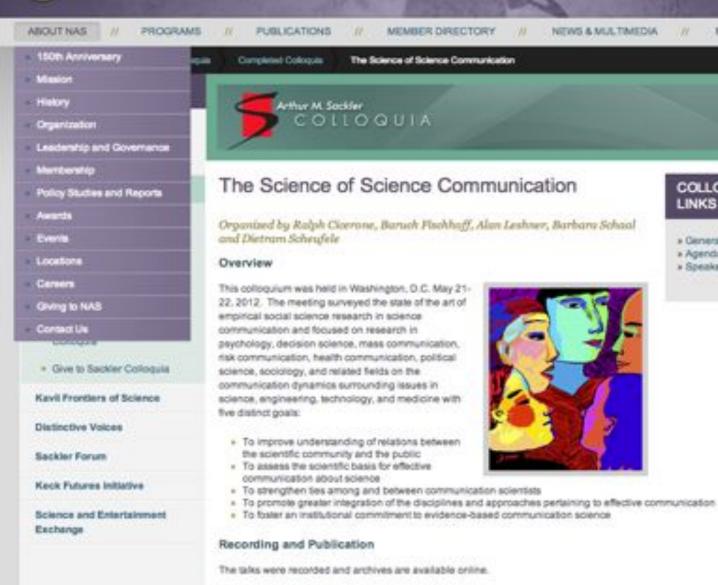
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The organizers are planning a special collection of papers based on the colloquium to be published in Proceedings of the National Academy of Sciences.



# POLITICALSCIENCE

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# Watching the watchers: lessons from the science of science advice

In the fourth of our series, Sheila Jasanoff asks who holds science advisers accountable for the integrity of their advice?



One Nation Under CCTV by Banksy, London 2009. Photograph: James Whatley

Institutions that play a watchdog role in society offer a persistent challenge for democracy: who shall watch the watchers? We shrink at the thought of unlimited police power or judges who place themselves above the law. Scientific advice is not immune to such concerns. Its role is to keep politicians and policymakers honest by holding them to high standards of evidence and reason. But who ensures the rationality of science advisers, making sure that they will be held accountable for the integrity of their advice?



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"Ironically, there is one kind of science that science advisers rarely turn to for insights into how best to define their role in the policy process. That is the body of scholarship which has emerged from some three decades of research in STS....

Work that probes into the foundations of knowledge making is sometimes associated with unproductive wheel-spinning and relativism, denying the very possibility of truth and progress. Yet the wheels, in my view, can spin with traction...

The relationship between creators and critics is fraught but indispensable. If judges may not presume to stand above the law, still less should science advisers seek to insulate themselves from the critical gaze of the science of science advice."

**Sheila Jasanoff** 

# Stuck between the old model & the new?

Old model of expertise	New model of expertise
Closed	Open
Homogenous	Diverse
Hubristic	Humble
Demanding public trust	Trusting the public
Expecting expert consensus & prescription	Expecting plural and conditional advice
Managerial control	Distributed control
Presenting the evidence	Presenting, evidence, judgment and uncertainty

