25 Years of Science Communication

BRIAN TRENCH PRESIDENT, PCST NETWORK

Over 25 years, science communication has ...

- been written into public policies
- been incorporated into state, higher education, research and professional agencies
- become a professional practice
- become a subject of university research and education
- developed many, diverse new forms
- spread to all continents and ~100 countries

Globalisation: contexts

- New expectations and hopes of science
- Knowledge economy sees science as driver of growth
- Sustainable development requires appropriate use of science
- 'Grand challenges' demand scientific response
 - Energy and food security; Epidemics, pandemics; Climate change

Globalisation: agencies

- UNEP, UNDP, UNIDO, WHO, FAO, UNESCO
- OECD
- European Union
- Wellcome Trust
- Gates Foundation
- ICSU





Taiwan national primary and high school science fair

Professionalisation

- Job descriptions specify science communication
- Formal training and education
- Professional networks
- Conferences



Red de Popularización de la Ciencia y de la Tecnología en América Latina y del Caribe

Public Communication of Science and Technology

April 26-28, 2016 / Istanbul - Turkey

Professionalisation: Masters programmes

MSc Science Communication



Northumbria University and the International Centre for Life are working and deliver an MSc in Science Communication in Newcastle upon Tyr The Masters course, which aims to equip students with a high level of transferable academic and practical components. It will provide a balanced technical and theor giving students an excellent grounding in the skills and knowledge vital for deliver science centres or related approaches.



Centre for Science Communication the home of storytelling

Master of Science Communication (MSciComm) The University of Otago offers a unique post graduate degree in science communication: the Master of Science Communication (MSciComm). The task is so big and so cool, we work together with NHNZ, award winning writers, museums, script writers, poets (yes, really) and a We'll train, challenge, market and package you into a lean, mean Science Communicator

machine and send you off to make your mark on the world. Choose the place to make your



Science and Natural History Filmmaking

Want to be the next David Attenborough? We work with NHNZ, the world's second largest producer of documentaries. You'll be driven hard to script, edit, produce, film and present a film to a baying audience. Don't like the sound of pressure and deadlines? Don't do this option.



Creative NonFiction Writing

The written word still rules, it might be on an iPad rather than vellum, but it's alive and well. We'll teach you to cut, chop and hone your writing until it's

Institutionalisation: supports for sci-comm

- Training courses in media skills
- Prizes for scientists writing popular science
- Science awareness awards for media professionals



Presentation to winner of Nigerian Academy of Science Print Journalist of 2013, Miss Bukola Adebayo

Diversification: sci-comm forms

- Science weeks
- Science festivals
- Science centres
- Science shops
- Science media centres
- Science cafés



Miraikan science centre, Japan



ArtScience Museum, Marina Bay Sands resort, Singapore



Science Gallery, Dublin







'The Science of Brewing' in Killarney's Irish Pub, Nashua, New Hampshire, USA



Women's science café in St John's Church, Kampala, Uganda

Formalisation: research

- Professor appointments
- Evaluation and strategy analysis
- PhD projects
- International conferences
 OPCST; ECSITE; SCWS; WFSJ; STS (sci-comm sections)
- Academic publishing





Formalisation: evaluation and strategy analysis



SCIENCE CULTURE: WHERE CANADA STANDS

Expert Panel on the State of Canada's Science Culture

WHAT DO CANADIANS THINK ABOUT SCIENCE AND TECHNOLOGY (S&T)?



Formalisation: academic publishing



The Routledge Handbook of Public Communication of Science and Tech-

Communicating Science

New Agendas in Communication

Sociology of the Sciences Yearbook 28

Simone Rödder Martina Franzen Peter Weingart **Editors**

The Sciences' Media **Connection** – **Public** Communication and its Repercussions

Investigating

Science Communication in the Information Age

Implications for public engagement and popular media

Bernard Schiele Michel Claessens Shunke Shi Editors

Science Communication in the World

Practices, Theories and Trends

he Culture of Science

How the Public Relates to ience Across the Globe

dited by



Bucchi & Trench: The Public Communication of Science, 4-vol. set

Edited by Massimiano Bucchi, Brian Trench

Routledge - 2016 - 1,736 pages

Series: Critical Concepts in Sociology

Selection criteria for 'major works'

- explicitly addressed processes and contexts of communicating science
- proved their worth in the field through frequent citation
- were cross-referenced in other texts within the collection
- valuable to the editors of this collection in their own work
- endured as foundational texts in the field

Selection criteria for 'major works'

- set new directions for work in the field
- have the potential, in the editors' view, to influence future work in the field
- represent significant elements of the diversity of the field
- address big moments or big issues in the evolution of science communication



Sources for 'major works'?

- Science communication journals (19, majority PUS)
- Social studies of science journals (15)
- Edited collections (12)
- Monographs (9)
- Communication journals (6)
- Natural science journals (6)
- Others (6)
- Essay collections (5)







And the next 25 years?

Increased international collaboration

• More comparative evaluation?

- Further global spread
- Further diversification
 - o embedding science in various cultural forms
- More co-ordinated research agendas
 - E.g. examining fragmentation of media and audiences
- Difficulties to maintain sci-comm as university subject?
- Contest over promotion vs interpretation?