

## COMMUNICATING SCIENCE

Southern California Marine Mammal Workshop 2014

### SUGGESTED READINGS ON SCIENCE COMMUNICATION

#### ARTICLES & REPORTS

[The Science of Science Communication](#) — Arthur M. Sackler Colloquia, National Academy of Sciences: 21–22 May 2012.

"[Framing Science](#)" — Matthew Nisbet and Chris Mooney, *Science*: 6 April 2007; Vol. 316. no. 5821: 56.

[Public Attitudes and Understanding](#): — Science and Engineering Indicators 2012, National Science Board.

"[Capably Communicating Science](#)" — Alan I. Leshner, *Science*: 17 August 2012; Vol. 337, no. 6096: 777.

"[The Polarizing Impact of Science Literacy and Numeracy on Perceived Climate Change Risks](#)" — Dan M. Kahan, Ellen Peters, Maggie Wittlin, Paul Slovic, Lisa Larrimore Ouellette, Donald Braman and Gregory Madel, *Nature Climate Change*: Published Online: 27 May 2012.

"[Communicating the Science of Climate Change](#)," — Richard C. J. Somerville and Susan Joy Hassol, *Physics Today*. October 2011; Vol. 64, no. 10: 48–53.

"[Applying the Science of Communication to the Communication of Science](#)" — Baruch Fischhoff, *Climatic Change*: 2011; Vol. 108, no.4: 701–705.

"[The Broad Challenge of Public Engagement in Science](#)" — Rinie van Est, *Science and Engineering Ethics*: Published Online: 23 June 2011.

"[We Need to Reward Those Who Nurture a Diversity of Ideas in Science](#)" — Alan I. Leshner, *The Chronicle of Higher Education*: 6 March 2011.

"[Tweeting Science and Ethics: Social Media as a Tool for Constructive Public Engagement](#)" — Alan C. Regenberg, *American Journal of Bioethics*: May 2010; Vol. 10, no. 5: 30–31.

"[Bridging Science and Society](#)" — Peter Agre and Alan I. Leshner, *Science*: 19 February 2010; Vol. 327, no. 5968: 921.

"[Public Praises Science; Scientists Fault Public, Media](#)" — Pew Research Center for the People & the Press: 9 July 2009.

"[Scientist Citizens](#)" — Christopher Reddy, *Science*: 13 March 2009; Vol. 323, no. 5929: 1405.

"[Many Experts, Many Audiences: Public Engagement with Science and Informal Science Education](#)," — McCallie, E., Bell, L., Lohwater, T., Falk, J. H., Lehr, J. L., Lewenstein, B. V., Needham, C., and Wiehe, B. A CAISE Inquiry Group Report. Washington, D.C.: Center for Advancement of Informal Science Education (CAISE): March 2009.

"[Interactions with the Mass Media](#)" — Hans Peter Peters, Dominique Brossard, Suzanne de Cheveigné, Sharon Dunwoody, Monika Kallfass, Steve Miller, and Shoji Tsuchida, *Science*: 11 July 2008; Vol. 32, no. 5866: 204–205.

"[Engaging the Scientific Community with the Public](#)" — Rick Borchelt and Kathy Hudson, *Science Progress*: 21 April 2008.

"[Improving How Scientists Communicate about Climate Change](#)" — Susan Joy Hassol, *Eos*: 11 March 2008; Vol. 89, no. 11: 106–107.

"[Evolution and Its Discontents: A Role for Scientists in Science Education](#)"— *The FASEB Journal*: 2008; 22:1–4.

"[The Quality of Public Dialogue](#)" — Kathy Sykes, *Science*: 30 November 2007; Vol. 318, no. 5855: 1349.

"[Beyond the Teachable Moment](#)" — Alan I. Leshner, *JAMA: Journal of the American Medical Association*: 19 September 2007; Vol. 298, no. 11: 1326–1328.

"Outreach Training Needed" — Alan I. Leshner, *Science*: 12 January 2007; Vol. 315, no. 5809: 161.

"Science and Public Engagement" — Alan I. Leshner, *The Chronicle for Higher Education (Chronicle Review)*: 13 October 2006; B12.

"Social Values and the Governance of Science" — George Gaskell, Edna Einsiedel, William Hallman, Susanna Hornig Priest, Jonathan Jackson, and Johannus Olsthoorn, *Science*: 23 December 2005; Vol. 310, no. 5756: 1908–1909.

"Winning Greater Influence for Science" — Daniel Yankelovich, *Issues in Science and Technology*: Summer 2003; 7–11.

Science Communication: Power of Community – Elizabeth Marincola, *Science* 6 December 2013: 1168–1169.

<http://www.sciencemag.org/content/342/6163/1168.2.full>

## BOOKS

**A highly suggested book:** *Am I Making Myself Clear?: A Scientist's Guide to Talking with the Public* — Cornelia Dean

Don't be Such a Scientist: Talking Substance in an Age of Style – Randy Olsen (book link and interview at:

<http://www.loe.org/shows/segments.html?programID=10-P13-00043&segmentID=5>)

*Successful Science Communication: Telling It Like It Is* — David J. Bennett and Richard C. Jennings, ed.

*A Field Guide for Science Writers, 2nd Edition* — Deborah Blum, Mary Knudson, and Robin Marantz Henig, ed., National Association of Science Writers

[A Scientist's Guide to Talking with the Media](#) — Richard Hayes and Daniel Grossman, Union of Concerned Scientists

[Communicating Science: Giving Talks](#) — Burroughs Wellcome Fund

[Communicating Uncertainty: Media Coverage of New and Controversial Science](#) — Sharon M. Friedman, Sharon Dunwoody, and Carol L. Rogers, ed.

[Don't Be Such a Scientist: Talking Substance in an Age of Style](#) — Randy Olson

[Engaging Science: Thoughts, deeds, analysis and action](#) — Jon Turney, ed., The Wellcome Trust (UK)

[Explaining Research: How to Reach Key Audiences to Advance Your Work](#) — Dennis Meredith

[Informal Education Practicum for Scientists](#) — Steven Ackerman, Sharon Dunwoody, Ronald Yaros, and Mohammad Douglah, University of Wisconsin, Madison

[Marketing for Scientists: How to Shine in Tough Times](#) — Marc J. Kushner

[Sharing Science: Communication, Education and Outreach](#) — Museum of Science, Boston

[Taking Science to the People: A Communication Primer for Scientists and Engineers](#) — Carolyn Johnsen, ed.

[Visual Strategies: A Practical Guide to Graphics for Scientists and Engineers](#) — Felice C. Frankel and Angela H. DePace