

## BIOGRAPHICAL SKETCH

<b>NAME</b> <b>Trudy E. Bell</b>	<b>POSITION TITLE</b> <b>Principal and Founder, Trudy E. Bell &amp; Associates</b>		
<b>EDUCATION</b> ( <i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i> )			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR CONFERRED</b>	<b>FIELD OF STUDY</b>
University of California, Santa Cruz, Calif.	A.B.	1971	History of science (honors on senior thesis); physics minor
New York University, New York City	A.M.	1978	American intellectual history, history of science

Professional Experience:

<b>Member of the Board of Editors</b> <i>Scientific American</i> magazine	<b>1971-1978</b>
<b>Founding Senior Editor</b> <i>Omni</i> magazine	<b>1978-1979</b>
<b>Member of the Writing Workshops Faculty, “Scientific and Technical Writing”</b> New School for Social Research, New York City, NY (undergraduate level)	<b>1978-1980</b>
<b>Fulltime freelance science writer</b> New York City, NY	<b>1979-1980</b>
<b>Adjunct Instructor, “History of Science”</b> Fordham University, New York City, NY (undergraduate level)	<b>1980-1981</b>
<b>Technical Editor</b> Teleprompter Corp., New York City, NY	<b>1980-1982</b>
<b>Adjunct Instructor, “Reporting on Science, Technology, Medicine”</b> Polytechnic Institute of New York, Brooklyn, NY Graduate Program in Specialized Journalism (graduate level)	<b>1980-1991</b>
<b>Regents Lecturer, Science Communications</b> University of California, Santa Cruz	<b>1982</b>
<b>Senior Editor</b> <i>Personal Computing</i> magazine	<b>1982-1983</b>
<b>Senior Editor</b> <i>IEEE Spectrum</i> magazine, New York City, NY	<b>1983-1997</b>
<b>Communications Specialist, North American Operational Effectiveness Practice</b> McKinsey & Company, Cleveland, OH	<b>1997-2000</b>
<b>Principal and Founder</b> Trudy E. Bell & Associates, Lakewood, OH	<b>2000-present</b>

Honors and Awards (top awards only; does not include numerous lesser awards):

1971	honors on senior thesis (history of lunar occultations observations), University of California, Santa Cruz
1976	First Prize, Griffith Observatory–Hughes Aircraft Essay Contest (for “From the Jaws of Victory” [biography of Isaac Greenwood])
1978	First Prize, Griffith Observatory–Hughes Aircraft Essay Contest (for “The Grand Analogy: History of the Idea of Extraterrestrial Life”)
1980	Aviation/Space Writers Association Journalism Award of Excellence (for “America’s Other Space Program”[military space activities])

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### Honors and Awards (continued):

- 1981 Aviation/Space Writers Association Journalism Award of Excellence (for “Space: Is It Worth It?”)
- 1985 First Prize, New York Business Press Editors (for “The New Television”)
- 1986 First Prize, Griffith Observatory–Hughes Aircraft Essay Contest (for “In the Shadow of Giants: History of Forgotten 19<sup>th</sup>-century Telescope Makers”)
- 1986 National Magazine Award [the magazine equivalent of the Pulitzer Prize] for Special Issue (for “Hello Again?” and its lead investigative report “The Decision to Divest”)
- 1987 First Prize, New York Business Press Editors (for “Optical Computing: A Field in Flux”)
- 1988 Aviation/Space Writers Association Journalism Award of Excellence (for “The Fatal Flaw in Flight 51-L”)
- 1988 First Award, Society of National Association Publications (for “The Fatal Flaw in Flight 51-L”)
- 1988 IEEE John D. Ryder Communicator of the Year (for “The Fatal Flaw in Flight 51-L”)
- 1990 Aviation/Space Writers Association Journalism Award of Excellence (for “The Space Shuttle: A Case of Subjective Engineering”)
- 1990 First Prize, New York Business Press Editors (for “‘Doc’ Edgerton: an EE for all Seasons”)
- 1994 First Prize, New York Business Press Editors (for “Jobs at Risk”)
- 1996 IEEE John D. Ryder Communicator of the Year (for “U.S. Science and Technology Museums”)
- 2001 *Engineering Tomorrow* named Outstanding Academic Book by *Choice* (journal of academic librarians)

### Editorial Review Board Activities

N/A

### Board Memberships, Invited Lectures, and Other Awards

- 1977 Member of the Science at Sea staff aboard Sitmar’s T.S.S. Fairwind total solar eclipse cruise to the South Pacific, speaking on the history of eclipse expeditions (faculty included Margaret Mead)
- 1979 Lecturer at the Institute on Man and Science, Rensselaerville, N.Y., speaking on the history of the idea of extraterrestrial life (faculty included Isaac Asimov, Isidore Adler, and Mark R. Chartrand III)
- 1979 Panelist in forum “Science and Technology in the Business World: Opportunities for Women,” Radcliffe College, MA
- 1980 Lecturer at the Institute on Man and Science, Rensselaerville, N.Y., speaking on the history of risk assessment (faculty included Isaac Asimov, Isidore Adler, and Mark R. Chartrand III)
- 1980 Lecturer on “Journalism in the Birth of Space Commerce,” Greater New York Section of the American Institute of Aeronautics and Astronautics
- 1981 Guest lecturer on “Sensitive Topics; the Writer’s Credibility and Responsibility” in graduate proseminar on television science journalism, MIT, Cambridge, Mass.
- 1981 Lecturer “A Journalist’s Look at Space,” Antioch College, Yellow Spring, Ohio
- 1981 Lecturer “Editorial Strategy,” at seminar “Communicating Technical Information,” MIT, Cambridge, Mass.
- 1981 Panelist on space industrialization, New York County Lawyers Association, New York City
- 1981 Panelist speaking on American space interest groups, Museum of Science and Industry, Chicago
- 1982 Regents Lecturer in Science Communications (two-week lectureship), University of California, Santa Cruz, Calif., including numerous public lectures
- 1983 Lecturer at conference Technicom ’83, sponsored by Society for Technical Communication, Northern Ohio Chapter, Cuyahoga Community College, Parma, Ohio
- 1984 Lecturer on American space interest groups in symposium U.S. Space Policy: Foreign and Domestic Influences, George Washington University, Washington, D.C.
- 1985 Speaker on American space interest groups at Seventh Princeton/American Institute of Aeronautics and Astronautics/Space Studies Institute Conference, Princeton University, Princeton, N.J.
- 1986 Lecturer on astronomy journalism, East Bay Astronomical Society, Oakland, Calif.
- 1987 Lecturer “Writing About Controversial Issues in Science and Technology,” at Technological Literacy: Second National Science, Technology, Society Conference, Washington, D.C.
- 1993 Lecturer “Writing for Semi-Technical and Popular Magazines,” JPL Writers Club, Jet Propulsion Laboratory, Pasadena, Calif.
- 1994 Speaker “Panasonic Bicycles: A Case Study in Flexible Manufacturing,” 1994 SAE Aerospace Atlantic Conference & Exposition, Dayton, Ohio
- 1995 Keynote panelist, plenary session on “Power Engineering Careers—The Impact of Corporate Restructuring,” 1995 Winter Meeting of the IEEE Power Engineering Society, New York City
- 1995 Panelist in session “How to Increase the Half-Life of Your Career Continuously,” 1996 IEEE Professional Development Conference, IEEE Fox Valley (Chicago) Section, Lisle, Ill.

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- 2000 Keynote (banquet) panelist, speaking on the history of American space interest groups, International Space Development Conference, Tucson, Ariz.
- 2000 Keynote banquet speaker on "Engineering: Creativity, Fun, and Empowerment," Binney & Smith, Easton, Penna.

### Select Bibliography (complete list over 30 years tops 300 publications):

- Bell, Trudy E., Dooling, Dave, and Fouke, Janie, *Engineering Tomorrow: Today's Technology Experts Envision the Next Century* [the IEEE's millennium book], IEEE Press, Piscataway, N.J. (2000) (Book named Outstanding Academic Book by *Choice* magazine.)
- Bell, Trudy E., "Ingenuity in the Moon's Shadow," (19<sup>th</sup>-century solar eclipse expeditions) *The Sciences*, 39 (6): 14-17, Nov./Dec., 1999.
- Bell, Trudy E., "Employment roundtable: Survival calls for more than technical fitness," *IEEE Spectrum*, 33 (3): 20-31, March, 1996.
- Bell, Trudy E., "The Beckman Institute for Advanced Science and Technology," *IEEE Spectrum*, 33 (11): 54-60, November, 1996.
- Bell, Trudy E., Two-part series on "U.S. science and technology museums," *IEEE Spectrum*, 32, 1995; Part I, September, (9): 50-71; Part II, October, pp. 48-71. (Series won the 1996 John D. Ryder Communicator of the Year Award.)
- Bell, Trudy E., "Engineering layoffs: facts and myths," *IEEE Spectrum*, 31 (11): 16-25, November, 1994.
- Bell, Trudy E., "Jobs at risk," (special report) *IEEE Spectrum*, 30 (8): 18-31, 34-35, August. (Won 1994 First Prize from New York Business Press Editors in category 'Reporting on a General Issue').
- Bell, Trudy E., contractor for *Access to Space: The Future of U.S. Space Transportation Systems*, U.S. Congress's Office of Technology Assessment, OTA-ISC-415 (Washington, D.C.: U.S. Government Printing Office), April 1990.
- Bell, Trudy E., "'Doc' Edgerton: an EE for all seasons," *IEEE Spectrum*, 13 (9): 52-57, September, 1989. (Won 1990 First Prize from New York Business Press Editors in the category 'Profile').
- Bell, Trudy E. and Karl Esch, "The fatal flaw in Flight 51-L," *IEEE Spectrum*, 24 (2): 36-51, February. (Special report won three top honors in 1988: IEEE John D. Ryder Communicator of the Year Award; the Aviation/Space Writers Association Journalism Award of Excellence in the category 'Magazines—Technical—Space'; and the First Award from the Society of National Association Publishers). •
- Bell, Trudy E., "Optical Computing: a field in flux," (special report) *IEEE Spectrum*, 23 (8): 34-57, August, 1985. (In 1986, special report received First Prize from New York Business Press Editors in the category 'Survey/Round-up').
- Bell, Trudy E., "In the Shadow of Giants: Forgotten Nineteenth Century American Telescope Makers and their Crucial Role in Popular Astronomy," (condensation of NYU master's thesis), *Griffith Observer*, 50 (9): 3-14, September, 1986. (First Prize in the 1986 Griffith Observatory - Hughes Aircraft Essay Contest).
- Bell, Trudy E., "The Evolution of American Space Interest Groups, 1980-1985," *Space Manufacturing 5; Engineering with Lunar and Asteroidal Materials* (Proceedings of the Seventh Princeton/AIAA/SSI Conference, May 8-11, 1985), edited by Barbara Faughnan and Gregg Maryniak, American Institute of Aeronautics and Astronautics, pp. 187-195, October, 1985.
- Bell, Trudy E., assistant issue editor for special issue of *IEEE Spectrum* (v. 22, no. 11, November, 1985) on telecommunications after the AT&T divestiture. Issue received 1986 National Magazine Award—the magazine industry's equivalent of the Pulitzer Prize—for Special Issue. Wrote lead investigative article "The Decision to Divest: Incredible or Inevitable?" pp. 46-55.
- Bell, Trudy E., "Single-frequency Semiconductor Lasers," *IEEE Spectrum*, 20 (12): 38-45, December, 1983.
- Bell, Trudy E., Consulting Editor for *A Reader/Study Guide for COSMOS Carl Sagan*, by Ann Elwood and Linda Wood, Random House, Fall 1980; includes excerpted reprint of Trudy E. Bell's "The Grand Analogy: History of the Idea of Extraterrestrial Life," pp 236-242..
- Bell, Trudy E., *Technologies for the Handicapped and the Aged*, A report for special hearings of Select Committee on Aging and the Committee on Science and Technology, U.S. House of Representatives. National Aeronautics and Space Administration. Office of Space and Terrestrial Applications. Technology Transfer Division. July, 1979.
- Bell, Trudy E., "America's Other Space Program," *The Sciences*, 19: 6-13, 32, December 1979. (Won 1980 Aviation/Space Writers Association Journalism Award of Excellence, in the category 'Magazines-Special Interest/Trade-Space').
- Bell, Trudy E., "The Grand Analogy: History of the Idea of Extraterrestrial Life," *Griffith Observer*, 42: 2-16, August, 1978. (First Prize, 1978 Griffith Observatory - Hughes Aircraft Essay Contest).
- Bova, Ben with Bell, Trudy E., editors, *Close Up: New Worlds* (St. Martin's Press, 1977).
- Bell, Trudy E., book review of Silvio Bedini's *Thinkers and Tinkers*, in *Sky & Telescope*, 51: 342-343, May, 1976.
- Bell, Trudy E., "From the Jaws of Victory: The Checkered Career of Isaac Greenwood.," *Griffith Observer*, 40: 2-9 July, 1976 (First Prize, 1976 Griffith Observatory - Hughes Aircraft Essay Contest)
- Bell, Trudy E., "The History of Astrophotography," *Astronomy*, 4: 66-79, July 1976.
- Bell, Trudy E., "The Beginnings of American Astronomy" *Sky & Telescope*, 52: 26-31, July 1976.

### Miscellaneous:

Observed five total eclipses of the sun (1970, 1972, 1973, 1977, 1979); have led several dozen amateur astronomical expeditions to observe grazing lunar occultations and meteor showers (1960s to present)

Avid book collector on 19<sup>th</sup>-century American astronomy (750 volumes – mostly 19<sup>th</sup> century, some 18<sup>th</sup> century) and on the history of exploration and of scientific expeditions (1000 volumes – mostly early 20<sup>th</sup> century and late 19<sup>th</sup> century), with a special interest in women

Bicycled the length of Baja California (1986); trekked to Everest base camp (1987); became certified bicycle mechanic (East Coast Bicycle Academy, Harrisonburg, West Virginia, 1989); author of six books on bicycling (1994 to 1999); tandem bicycled with 9-year-old daughter for 7 weeks 650+ miles across four Midwest states (2000)