

DEBRA MELOY ELMEGREEN

Professor of Astronomy on the Maria Mitchell Chair and
Chair of the Dept. of Physics and Astronomy, Vassar College, Poughkeepsie, NY 12604 USA
<https://www.vassar.edu/faculty/elmegreen>

- **Education**
Harvard University, Astronomy, Ph.D. 1979, A.M. 1977 (Zonta Amelia Earhart Fellowship)
U. of California at Santa Cruz, Astronomy and Astrophysics, 1976
Princeton University, Astrophysical Sciences, A.B., 1975 (Westinghouse Science Scholarship)
- **Employment**
Vassar College since 1985
IBM Watson Research Center, Jan. 1982 - Dec. 1988
Carnegie Postdoctoral Fellow, The Carnegie Observatories, 1979-81
- **Selected Fellowships, Honors, Awards**
American Astronomical Society George van Biesbroeck Prize for service, 2018
National Associate of the National Research Council, National Academy of Sciences, 2016
NASA Hubble Space Telescope 25th Anniversary Commendation for Science Contributions, 2015
Elected Fellow of the American Association for the Advancement of Science, 2011
- **Selected Grants**
STScI/NASA Hubble Space Telescope grants, 1996-present
Spitzer Infrared Telescope/NASA grants, 2004-11
Keck Northeast Astronomy Consortium grant, National Science Foundation REU, 2004-21
National Science Foundation VPW, RUI, and ILI grants 1986-99
- **Selected Professional Service**
President-Elect, International Astronomical Union, 2018-present; Vice President, 2015-18
Past President, American Astronomical Society; President, 2010-12; Councilor, 1998-02
Chair of the Board of Directors, Association of Universities for Research in Astronomy, 2013-now
Chair of the Committee to Optimize the US Optical and Infrared System in the Era of the Large Synoptic Survey Telescope, The National Academies, 2014-15
Past Chair, Astronomy Section, American Association for the Advancement of Science, 2015-18
American Association for the Advancement of Science, Scientific Program Committee, 2012-16
Board on Physics & Astronomy, National Research Council, 2010-14; Vice Chair 2012-14
Astronomy & Astrophysics Advisory Committee (NASA, NSF and DOE), 2010-13
Chair, Hubble Space Telescope Allocation Committee, Cycle 21, 2012-13
U.S. National Academies Decadal Survey Committee of Astronomy and Astrophysics, 2008-10
- **Research** 8700 citations; h-index 52, 160 peer-reviewed papers, 320 conference articles
Interests: Optical, infrared, and radio observations of structure and star formation in nearby and high redshift galaxies
Recent publications:
Elmegreen, D. & Elmegreen, B. 2017, Little Blue Dots in the Hubble Space Telescope Frontier Fields: Precursors to Globular Clusters?," *Astrophysical Journal Letters*, 851, L44
Elmegreen, D., Elmegreen, B., Kaufman, M., et al. 2017, "ALMA CO Clouds and Young Star Complexes in the Interacting Galaxies IC 2163 and NGC 2207," *Astrophysical Journal*, 841, 43
Elmegreen, D., Elmegreen, B., Sanchez Almeida, J., et al., 2016, "Hubble Space Telescope Observations of Accretion-Induced Star Formation in the Tadpole Galaxy Kiso 5639," *Astrophysical Journal*, 825, 145
Books and Major Reports:
Elmegreen, D. et al. 2015, *Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System*, National Academies Press (<http://www.nap.edu/catalog/21722/optimizing-the-us-ground-based-optical-and-infrared-astronomy-system>)
Blandford, R. et al., 2010, *New Worlds, New Horizons in Astronomy and Astrophysics*, Decadal Survey, National Academies Press (Wash., DC) (ISBN-10: 0-309-15802-8) (<http://www.nap.edu/catalog/12951/new-worlds-new-horizons-in-astronomy-and-astrophysics>)
D. M. Elmegreen 1998, *Galaxies and Galactic Structure* (undergraduate textbook), Prentice Hall, (ISBN 0-13-779232-8)