

Edward F. Guinan: Candidate for USNC/IAU

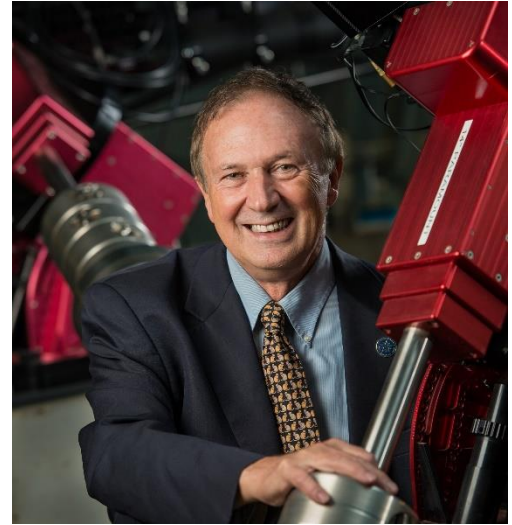
Affiliation: Villanova University

Position/Title: Professor- Astrophysics & Planetary Science

PhD institution: University of Pennsylvania, 1970

Areas of scientific interest:

- Binary stars as astrophysical laboratories
- Pulsating stars: cepheids and red supergiants
- The Sun in Time program; Magnetic evolution of the Sun and solar-type stars and effects on hosted planets
- Exoplanets, ages, and X-UV irradiances of habitable zone exoplanets (can life find a way)
- Living with a red dwarf (LivRed Program), ages and X-UV radiation and winds of dM stars
- Mars gardens at Villanova
- Education and outreach programs in developing countries with International Astronomical Union (IAU)



AAS and/or Division leadership positions and dates:

- Member, Publication Board, American Astronomical Society, 2012 – 2017
- Chair, US National Committee for the International Astronomical Union (USNC/IAU), 2013 – 2016
- Representative, US National Committee for the International Astronomical Union (USNC/IAU), 2010 – 2016
- Member, Council (now Board of Trustees), American Astronomical Society, 2010 – 2013
- Chair, Committee on Employment, American Astronomical Society, 1993 – 1999

Other relevant positions, experience, and dates:

- Member, Steering Committee, Office for Young Astronomers (OYA), International Astronomical Union, 2018 – present
- Co-Chair, Education and Research in Developing Countries, Office of Astronomy for Development (OAD), International Astronomical Union, 2013 – 2022
- Chair/Director, Teaching Astronomy for Development (TAD) program, International Astronomical Union, 2007 – 2013
- Member, Council, American Association of Variable Star Observers (AAVSO), 2008 – 2014
- Member, Editorial Board, Publications of the Astronomical Society of the Pacific (PASP), 2007 – 2014

- Member, Editorial Board, *Journal of Astrophysics and Space Science*, 2011 – 2015
- Advisor, African Astronomical Society (AfAS), International Astronomical Union, 2011 – 2017
- Co-Director, International School of Young Astronomers (ISYA), International Astronomical Union, 1998 – 2007
- President, Division V Variable Stars, International Astronomical Union, 2000 – 2006
- Vice-President, Division V Variable Stars, International Astronomical Union, 1997 – 2000

Statement:

It is an honor to be asked to be a candidate for the US National Committee/IAU (USNC/IAU). I have been a member of the American Astronomical Society for much of my life and served in the number of capacities and positions. I have been the chair the AAS Committee on Employment (1993-1999), AAS Council - now Board of Trustees (2010-2013), US National Committee IAU / National Academy of Sciences (2010-2016; Chair 2010-2013), and more recently was a member of the AAS Publications Committee (2012-2017). While chairing the AAS Committee on Employment we established job/career workshops, one-on-one career advice and brought in experts in careers outside astronomy as speakers and career consultants. While a council member (2010-2013), we helped establish the FAMOUS Travel Grants to promote diversity at AAS Meetings. In 2011 at the urging of the LGBTQ+ astronomy community, advocated (and received approval) for a special award for the gay rights activist leader and US astronomer Dr. Frank Kameny.

I have been active in the IAU and a member of several IAU Divisions that include Division C (Education, Outreach and Heritage), D (High Energy Phenomena and Fundamental Physics), E (Sun and Heliosphere), F (Planetary Systems and Astrobiology) and G (Stars and Stellar Physics). I have served on the USNC/IAU from 2010-2016 and helped organize the USNC/IAU/AAS reception of the IAU General Assembly in 2012. Also helped organize the Young Astronomers Lunch at the General Assembly in Beijing for over 350 participants.

Since 1999 I have served in education, research, and public outreach programs for the IAU for developing countries. These programs include the International School for Young Astronomers (ISYA), Teaching Astronomy for Development (IAU/TAD) program. In 2012 I was appointed the Chair of the IAU Task Force on Development of Astronomy Education and Research in Developing countries for the IAU Office of Astronomy for Development (OAD). Over twenty-five Astronomy Schools and Workshops were organized in primarily developing countries. More recently (since 2018) I serve on the Steering Committee for the IAU Office for Young Astronomers (OYA). The OYA sponsors the Young Astronomers Lunch at the IAU General Assembly as well as overseeing the IAU International School of Young Astronomers.

I believe I have the experience and background to do a good job as representative to the USNC/IAU. I have experience and the drive to promote good relations between the AAS community and the IAU. I will encourage AAS members to join the IAU (It's free!) and

participate in the IAU General Assemblies (next GA in Cape Town in 2024). I also will urge AAS members to attend and propose IAU symposia and run for IAU offices. As a member of the USNC/IAU, I will solicit your help ideas how to improve synergies between the AAS and the IAU as well as actively promote and advance the Mission of our Society "to enhance and share humanity's scientific understanding of the universe as a diverse and inclusive astronomical community".