Richard P. Fahey

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Education

Degree	Discipline	Institution	Year
Ph.D.	physics	Catholic University of America	1980
M.S.	physics	Catholic University of America	1968
B.S.	philosophy	St. Bonaventure University	1964

Academic Experience

Institution	Rank	Title	Dates	Full or Part Time
U.S. Naval Academy	Visiting Professor	Space Chair Professor	1998 - present	Part
Goddard Space Flight Center (NASA)	astrophysicist	Acting and Deputy Director, University Programs	1998-2008	Full
Montgomery College	Professor	Physicist	1968-1993	Full

Non-Academic Experience

GSFC since 1971. - Research in Gravitational Waves, Cosmology and AGN.

Current Membership in Professional Organizations

American Association of Physics Teachers (AAPT).

American Association of University Professors (AAUP).

American Astronomical Society (AAS).

International Astronomical Union (IAU)

Honors and Awards

1971, 72 - NASA/ASEE Summer Faculty Fellowship at GSFC.

1980, 85 - Guest Investigator with the International Ultraviolet Explorer Satellite (IUE).

Spring, 1987 - Awarded a sabbatical to write a short textbook explaining relativity, quantum theory, cosmology, *etc.*, for the students in "Philosophy of Nature" and "Relativity for the Layman" courses.

1992, 93 - Guest Observer with the Hubble Space Telescope (HST).

1993 - Montgomery College's Bronze Medallion.

1997, 98 - GSFC Director's Discretionary Funds (DDF) for creation of Naval Academy Research Opportunity Program (NAROP).

2000, 01 - DDF for recruiting researchers at local universities.

Selected Publications and Presentations (Last Five Years)

Applying Numerical Relativity to Gravitational Wave Astronomy,

McWilliams, Sean T.; Baker, J. G.; Thorpe, J. I.; Arnaud, K. A.; Fahey, R. P.; Kelly, B. J.

American Astronomical Society, HEAD meeting #10, #6.03, 2010.

LISA parameter estimation using numerical merger waveforms,

J.I. Thorpe, S.T. McWilliams, B.J. Kelly, R.P. Fahey, K. Arnaud, J.G. Baker . Class.Quant.Grav.26:094026, 2009.

LISA source modeling and data analysis at Goddard,

John Baker – NASA-GSFC, K. Arnaud, J. Centrella, R. Fahey,

B. Kelly, S. McWilliams, J. Van Meter, 2006.

C. Ratcliffe, W. Bagaria, S. Garcia, R. P. Fahey, "Rapid Binary Gage Function to Extract a Pulsed Signal Buried in Noise," EURASIP Journal on Applied Signal Processing, 2004.

Reid W. Smythe and R. P. Fahey, "An Examination of Acceptable Navigation Accuracy for LISA Orbits," Trident Scholar Report #360 (2007).

Recent Professional Development Activities

- Reviewed the final draft of the highly influential "Connecting Quarks with the Cosmos: Eleven Science Questions for the New Century" for the National Academy of Sciences. This report lead to the "Beyond Einstein" proposal being included in the 2004 Presidential budget.

- Reviews proposals for NASA research, such as "Long Term Relativity Research," DDF, GSRP, NRC, etc.

- Reviews and Referees for physics and astrophysics journals and publications.

- Reviews NASA and other university and education programs and proposals, and works with the Space Grant Consortia of several states to foster NASA related research as well as diversity in Math, Science, Engineering and Technology.

- GSFC Education Council (charter member)

- 2000-present - mentor for several Trident Scholars