

Curriculum Vita Vasyl Yurchyshyn

Affiliations and Professional Experience:

- 2007 – present: *Research Professor*, Big Bear Solar Observatory of New Jersey Institute of Technology (BBSO/NJIT)
- 2002-2007: *Assistant Research Professor*, BBSO/NJIT
- 1999-2002: *Post-Doctoral Researcher*, BBSO/NJIT
- 1995: *Visiting Scientist*, Huairou Solar Observatory, China
- 1990-2003: *Researcher*, Crimean Astrophysical Observatory, Ukraine

Relevant Scientific, Technical Managerial Performance on Prior Research

Dr. V. Yurchyshyn has served as Principal Investigator of three NASA LWS (2011, 2008, 2005) and one GI (2008) proposals, as well as two NSF proposals (2011, 2002). He has also been co-investigator in numerous NASA and NSF proposals.

The topics included studying solar magnetic fields and associated active phenomena: complexity and non-potentiality of magnetic fields, small-scale magnetic fields in coronal holes and quiet sun areas, solar flares, coronal mass ejections and their association with magnetic clouds and geomagnetic storms.

Dr. Yurchyshyn served as NASA and NSF panelist as well as a mail-in reviewer for NASA and NSF. He was a recipient of the *AGU Editor's Citation* award for Excellence in Refereeing, as well as *Yuri Drogobych* Award in Solar Physics from the Ukrainian Astronomical Association.

Technical skills of Dr. Yurchyshyn include many-year experience in solar observations with various ground-based solar instruments, substantial experience with acquisition, processing and scientific analysis of space-based observations, and deep physical understanding and broad knowledge of solar phenomena. He actively participated in design and construction of BBSO's full disk Halpha telescope and developed the telescope control and data acquisition software.

Managerial performance Dr. Yurchyshyn has organized several successful research teams as evidenced by his full publication list. He also supervised research of several PhD students. For about 5 years and managed the Global Halpha Network. He oversaw network expansion, data flow as well as the network website and maintenance.

Publications

- V. Yurchyshyn, V. I. Abramenko, P.R Goode, & A. Kosovichev, 2014, *High Resolution Observations of Chromospheric Jets in Sunspot Umbra*, ApJ, 787, 58
- V. Yurchyshyn, V. I. Abramenko, P.R Goode, 2013, *Dynamics of Chromospheric Upflows and Underlying Magnetic Fields*, ApJ, 767, 17
- E. K. Lim, V. Yurchyshyn, P. Goode, K.S. Cho, 2013, *Observation of a Non-radial Penumbra in a Flux Emerging Region under Chromospheric Canopy Fields*, ApJ Lett, 769, L18
- E. K. Lim, V. Yurchyshyn, V. Abramenko, K. Ahn, W. Cao, P. Goode, 2011, *Photospheric Signatures of Granular-scale Flux Emergence and Cancellation at the Penumbra Boundary*, ApJ, 740, 82
- V. Yurchyshyn, P.R. Goode, V. I. Abramenko, O. Steiner, 2011, *On the Origin of Intergranular Jets*, ApJ Lett., 736, L36
- V. Yurchyshyn, et al. 2010, *Chromospheric signatures of small-scale flux emergence as observed with NST and Hinode instruments*, ApJ, 722, 1970