CURRICULUM VITAE: Aileen A. O'Donoghue

EDUCATION:	May 1989	Ph.D. in Physics , New Mexico Institute of Mining and Technology (NMIMT) Socorro, New Mexico Dissertation Title: "VLA Observations of Wide Angle Tail Radio Sources and an
		Investigation of Flow Models and Bending Dynamics"
	October 1987	M.S. in Physics, New Mexico Institute of Mining and Technology Socorro, New Mexico
	April 1981	B.S. in Physics, Fort Lewis College Durango, Colorado
	June 1978	A.A. in Science and Mathematics, Colorado Mountain College Glenwood Springs, Colorado
POSITIONS:	8/89 -	Associate Professor of Physics, St. Lawrence University (SLU) Canton, New York
		Courses taught: Introductory Astronomy for non-science students (with lab), Mission Mars, an interdisciplinary, project-based, introductory science course for non-science students, Classical Mechanics for junior physics majors
	9/01 -6/02	Visiting Scientist, Vatican Observatory Research Group (VORG), Tucson, Arizona Engaged in spectroscopic research on stars under the NStars Project in collaboration with Richard Gray (Appalacian State University) and Chris Corbally (VORG)
	6/95 -10/95	Visiting Associate Professor of Astronomy, Cornell University, Ithaca, New York Taught summer introductory astronomy course and engaged in spectroscopic research on galaxies with the extragalactic research group, analyzing optical data from Palomar and Kitt Peak Observatories
	1/96 - 5/96	Visiting Scientist , NRAO VLA ¹ ,Socorro, New Mexico Engaged in research on radio galaxies using VLA data.
	8/89 - 8/94	Assistant Professor of Physics, SLU Courses taught: Introductory Physics (calculus and non-calculus, with lab) Introductory Astronomy for non-science students (with lab) Laboratory for conceptual physics for non-science majors
	8/88 - 8/89	Classical Mechanics for junior physics majors Interdisciplinary First Year Program Instructor of Physics, SLU
		Taught physics and astronomy courses.
	6/88 - 8/88	Research Assistant, NMIMT
	8/87 - 5/88	Graduate Instructor of Physics, NMIMT Guest Research Associate, Very Large Array Radio Telescope (VLA) National Radio Astronomy Observatory (NRAO), Socorro, New Mexico Acted as Site Scientist available to visiting observers for help with observing programs, data reduction, and facility operation.
	5/85 - 8/87	Junior Research Associate , NRAO VLA Fellowship position for thesis work. Also acted as site scientist helping visiting observers
	1/85 - 5/85	Research Assistant, NMIMT and NRAO VLA In collaboration with F. N. Owen, made VLA observations and did consequent calibration an imaging of OJ 287 in an investigation of closure errors (cf. VLA Scientific Memo #155).
	8/83 - 12/84	Graduate Instructor of Physics, NMIMT Taught lecture section of introductory, calculus-based physics course.
	5/82 - 8/83	Research Assistant , NASA-NMIMT Joint Observatory for Cometary Research (JOCR) Socorro, New Mexico
	8/81 - 5/82	Observed cometary ion tails with a 14 inch Schmidt telescope Teaching Assistant, NMIMT Instructed in the introductory physics laboratory.

¹National Radio Astronomy Observatory Very Large Array Radio Telescope

PROFESSIONAL American Astronomical Society, Sigma Pi Sigma, Astronomical Society of the Pacific,

ORGANIZATIONS: Royal Astronomical Society of Canada

RESEARCH Extended Extragalactic Radio Sources, Radio jets, Clusters of Galaxies, Galaxies,

INTERESTS: Radio Astronomy, Optical Spectroscopy, Stellar Classification

PUBLICATIONS: O'Donoghue, A. A., Owen, F. N., and Eilek, J. A. 1990, VLA Observations of Wide-Angle Tailed

REFEREED Radio Sources, Ap. J. Suppl., 72: 75-131.

JOURNALS: O'Donoghue, A. A., Eilek, J. A., and Owen F. N. 1993, Flow Dynamics of Wide-Angle Tailed Radio

Sources, Ap. J., 408: 428-445.

van Zee, Liese, Salzer, John J., Haynes, Martha P., O'Donoghue, Aileen A., and Balonek, Thomas J., 1998, *Spectroscopy of Outlying HII Regions in Spiral Galaxies: Abundances and Radial Gradients*,

A. J., 116: 2805-2833.

Katz-Stone, D. M., Rudnick, L., Butenhoff, C., and O'Donoghue, A. A., 1999, Coaxial Jets And

Sheaths In Wide Angle Tail Radio Galaxies, Ap. J., 516

Young, A., Rudnick, L, Katz-Stone, D. M., and O'Donoghue, A. A., 2002, Electron Population Aging

Models for Wide-Angle Tails, New Astronomy Reviews, 46, 105-107

MEETINGS PROCEEDINGS:

O'Donoghue, Aileen A., Eilek, Jean A., & Owen, Frazer N. 1996, *Observations of Straight-Angle Tailed Radio Sources in Rich Clusters of Galaxies*, in Extragalactic Radio Sources, IAU Symp.

175, ed. R. Ekers et al (Dordrecht:Kluwer).

O'Donoghue, Aileen A. 1992, The Problem of Bending Wide Angle Tail Radio Sources, in New York

State Astronomy (Schenectady, NY: L. Davis Press).

O'Donoghue, A. A. 1986, *What Bends WATS*?, in Radio Continuum Processes in Clusters of Galaxies, Proc. NRAO Workshop 16, ed. C. P. O'Dea and J. M. Uson (Green Bank West Virginia: NRAO).

O'Donoghue, A. A. and Owen, F. N. 1986, *Intensity Maps of Six Wide-Angle Tailed Radio Sources*, in Radio Continuum Processes in Clusters of Galaxies, Proc. NRAO Workshop 16, ed. C. P. O'Dea

and J. M. Uson (Green Bank West Virginia: NRAO).

TECHNICAL O'Donoghue, A. A. and Owen, F. N., 1985, Closure Errors, VLA Scientific Memo #155 (Socorro,

MEMOS: New Mexico: NRAO-VLA).

BOOK O'Donoghue, A. A., (1993) Post-use Review: Physics by Paul A. Tilper American Journal of Physics,

REVIEWS: Am. J. Phys., **61**: 956-957

POPULAR O'Donoghue, Aileen A., "Mountain Skies" (1999 -- present), regular column in *Adirondac* magazine,

ARTICLES: (bi-monthly)

AWARDS: Judge Francis Bergan Career Development Award in Astrophysics, awarded by the Dudley

Observatory, Schenectady, New York, for the 1993-1994 academic year.