CURRICULUM VITA

KAREN O'NEIL

NRAO – Green Bank
P.O. Box 2
Green Bank, WV 24944
(304) 456-2130

Fax: (304) 456-2229
e-mail: koneil@nrao.edu
http://www.gb.nrao.edu/~koneil

EDUCATION

University of Oregon (1991 – 1997)

Ph.D. in Astrophysics – received 1997
Faint Fuzzy Stuff: The Missing Baryons?
Dissertation adviser: Dr. G. Bothun
Dissertation committee: Dr. J. Schombert, Dr. J. Isenberg, Dr. J. Brau, Dr. J. Imamura

Master of Science in Physics – received 1993

Marlboro College (1987 – 1991)

Bachelor of Science with high honors in Physics/Mathematics – received 1991
Explosion, Inflation, & History: An Historical Description of Two Cosmological Models
Thesis advisers: Dr. J. Mahoney, Dr. J. Mazur
Outside Examiner: Dr. E. Bertschinger, Massachusetts Institute of Technology

RESEARCH EXPERIENCE

Associate Scientist, NRAO, Green Bank, 2004 – present
Assistant Scientist, NRAO, Green Bank, 2003 – 2004

Primary Observatory Duties:

- Project Manager & Project Scientist for the GBT Spectrometer Upgrade Project (2003-present)
- Observer support for GBT (2003-present)
- Working with the software group on the various Ease-of-Use projects (2004-present)
- Project Scientist of the Dynamic Scheduling project (2005-present)
- Member of the Science Operations Planning Group (2005-present)
- Advising students and teachers in the REU/RET programs (2003,2004,2005)

Recent Research Projects:

- First mapping of molecular gas in a low surface brightness galaxy
- Increasing the number of known massive LSB galaxies by a factor of 3
- HI line observations of over 300 LSB galaxies
- Development of a catalog of a reference catalog HI galaxy standards
- Field and cluster survey in the northern and southern sky for LSB galaxies
- High resolution multi-wavelength study of massive LSB galaxies
- Determination of the baryonic content and star-forming potential of nearby LSB galaxies

RESEARCH EXPERIENCE, cont

Visiting Scientist, University of Paris, Meudon, May, 2005

- One month paid position to work with colleagues at Meudon reducing Nançay data and designing GBT/Nançay collaborations

Staff Research Associate, Arecibo Observatory, 2000 – 2003

Primary Observatory Duties:
- Astronomy 'friend' of the L-band (narrow) receiver, which includes monitoring, calibrating, and writing the front-end software for this receiver, and acting as the liaison between the engineering department and telescope users and documenting the receiver's capabilities
- Scientific liaison for the front end telescope operating system
- Web master for all astronomy-related pages at the Arecibo Observatory site
- Writing and maintaining the *Arecibo Observatory Spectral Line User's Manual* and web page
- Writing & testing software (IDL, AIPS++, Analyz) for spectral line calibration and data reduction
- Aiding spectral line users/proposers of the Arecibo Gregorian system
- Advising students in the undergraduate REU program
- Co-editor of Arecibo Observatory Newsletter

Recent Research Projects:
- First detailed study of low surface brightness galaxies with AGN characteristics
- Optical and radio study of the star formation potential of diffuse galaxies
- Multi-filter optical survey for low surface brightness galaxies in the southern sky
- Assistance in preparing the Arecibo Gregorian system for public use
- First discovery of a significant number of galaxies falling off the (H I) Tully-Fisher relation
- Discovery of the highest M_{HI}/L_B galaxies known

Adjunct Assistant Professor, University of Oregon Physics Department, 1997 – 1998

Primary Research Projects:
- Multi-filter optical survey for low surface brightness galaxies in the nearby universe
- Discovery of over 200 previously uncatalogued distant (z>1) galaxies with the HST/WFPC2
- HST/WFPC2 study of the stellar content of nearby dE galaxies
- 21-cm survey of nearby low surface brightness galaxies using the Arecibo Gregorian system
- HST/WFPC2 investigation of UGC 12695, an extremely unevolved galaxy

RESEARCH EXPERIENCE, cont

Graduate Research Assistant, University of Oregon Physics Department, 1993 –1997

Primary Research Projects:

- Discovery of over 100 previously uncatalogued low surface brightness galaxies
- First discovery of very red low surface brightness galaxies
- HST WFPC-2 study of a nearby, extremely unevolved low surface brightness galaxies
- Multi-filter field survey for low surface brightness galaxies
- Computer modeling star burst in low surface brightness galaxies
- First attempt at space-based near-UV imaging of faint & diffuse galaxies

Undergraduate Research Assistant, Argonne National Laboratory, Summer 1990

Primary Research Project:

- Cosmic Ray measurements and calorimeter testing for the ZEUS/HERA e^+/e^- detector

Undergraduate Research Assistant, Marlboro College, Summer 1989

Primary Research Project:

- Aiding in the design and writing of an undergraduate calculus textbook

TEACHING EXPERIENCE

Adjunct Assistant Professor, Univ. of Oregon Physics Department, 1997 – 1998

High School Teacher, Wellsprings School, 1996

Physics and Mathematics tutor, Private 1992 – 1997

Graduate Teaching Assistant, Univ. of Oregon Physics Department, 1991 – 1993

Physics Teacher, Marlboro College, 1990 – 1991

Mathematics Teacher, Marlboro Elementary School, 1988 – 1991

Physics and Mathematics tutor, Marlboro College 1988 – 1991

TECHNICAL EXPERIENCE

- Optical observations (2700Å– 10200 Å) using both ground and space-based telescopes
- Radio (cm through mm) observations using both single dish and synthesis telescopes
- Extensive testing and study of both the Arecibo and GBT spectrometers
- Extensive calibration and testing of the Arecibo Gregorian telescope
- Written a variety of data reduction software for optical and radio data
- Tested the barrel calorimeter components for the ZEUS/HERA e^+/e^- detector
- Built a cosmic ray detector for advanced undergraduate laboratories
- Familiar with Unix, Linux, Windows 95/98, DOS, Macintosh computer systems
- Computer Languages known: Fortran, Glish, Basic, ImFort, Quick Basic, Pascal, LaTeX, HTML, HTML+, IDL

CONFERENCE COMMITTEES & REVIEW BOARDS

- Alternate Chair, NSF Universities Radio Observatories Review Panel
  August 22-26, 2005
- Member, Science Organizing committees
  3rd NRAO/NAIC School on Single-Dish Radio Astronomy Techniques and Applications
  July 10-17, 2005
- Chair, Science and Local Organizing committees
  2nd NRAO/NAIC School on Single-Dish Radio Astronomy Techniques and Applications
  August 10-17, 2003
- Chair, Science and Local Organizing committees
  1st Extragalactic Consortium Meeting for ALFA, the Arecibo L-band Feed Array
  March 15-17, 2003
- Member, Local Organizing committee
  1st NRAO/NAIC School on Single-Dish Radio Astronomy Techniques and Applications
  June 10-15, 2001
- Chair, Science Organizing committee
  Observing with the Upgraded Arecibo Telescope: Methods and Recent Results
  Held at the June, 2001 AAS meeting

PROFESSIONAL SOCIETIES, POSITIONS HELD, AND GRANTS AWARDED

- Member of the International Astronomical Union since 2000
- Member of the Astronomical Society of the Pacific since 1998
- Member of the American Astronomical Society since 1997
- Member of the American Physical Society since 1996
- Co-Editor of the Arecibo Observatory Newsletter 2001–2003
- Member of the AIPS++ Users Group 2001
- Co-Chair of the Arecibo Observatory Colloquium 1998–2001
- Co-Chair of the Arecibo Observatory Journal Society 1998–2000
- Member of the University of Oregon Physics Department admissions and awards committee 1995–1997
- Graduate student representative to the University of Oregon Physics faculty 1994—1995
- Graduate student representative to the Pine Mountain Observatory 1992–1993
- Recipient of a U.S. Department of Education GAAN fellowship 1993–1994

References Available upon request

EDUCATION AND PUBLIC OUTREACH (2004-2005 only)

Karen O'Neil

Mentor: *40' Observing Projects*; NRAO West Virginia Governor's School (08/05)

Talk: *Gas in Galaxies*; NRAO West Virginia Governor's School (08/05)

Talk: *HI in Galaxies*; NRAO REU Program (08/05)

Talk: *Calibration Techniques with Single Dish Telescopes*; NRAO/NAIC Single Dish School on Radio Astronomy (07/05)

Mentor: HI in Extended Galaxies; GBT Observing Project, NRAO/NAIC Single Dish School on Radio Astronomy (07/05)

Mentor: *40' Observing Projects*; Pocahontas County GEARUP (06/05)

Mentor: *Determining the Power of Black Holes*; 40' telescope project by students of Five Hawks Elementary School, Prior Lake, MN (12/04)

Radio Show: *Observing Galaxies at Different Wavelengths*; West Virginia Mountain Radio Astronomy Show (11/04)

Talk: *HI in Galaxies (revised)*; NRAO RARECATS (07/04)

Talk: *HI in Galaxies*; NRAO Chautauqua Course (07/04)

Talk: *HI in Galaxies*; NRAO REU Program (06/04)

Radio Show: *Types of Galaxies*; West Virginia Mountain Radio Astronomy Show (03/04)

COMPLETE BIBLIOGRAPHY

Karen O'Neil

Journal Articles:

Star Formation Properties of HI Selected Galaxies II: HII Region Properties
J. F. Helmboldt, R.A.M. Walterboss, G.D. Bothun, K. O'Neil
2005, ApJ, Accepted

The Green Bank Telescope Pulsar Spigot
D. L. Kaplan, R. P. Escofier, R. J. Lacasse, K. O Neil, J. M. Ford, S. M. Ransom,
S. B. Anderson, J. M. Cordes, T. J. W. Lazio, & S. R. Kulkarni
2005, PASP 117, 643

The Dwarf Low Surface Brightness Galaxy Population of the Virgo Cluster:
II. Colors and HI line observations
S. Sabatini, J. Davies, W. van Driel, M. Baes, S. Roberts, R. Smith, S. Linder, K. O'Neil
2005, MNRAS, 357, 819

Completing HI Observations of Galaxies in the Virgo Cluster
G. Gavazzi, A. Boselli, W. van Driel, K. O'Neil
2005, A&A, 429, 439

A New HI Catalog of Low Surface Brightness Galaxies Out to z=0.1
Tripling the number of Massive LSB Galaxies
K. O'Neil, G. Bothun, W. van Driel, D. Monnier-Ragaigne
2004, A&A, 428, 823

Properties of Molecular Gas in Massive Low Surface Brightness Galaxies,
Including New 12CO Observations of Three Malin 1 'Cousins'
K. O'Neil, E. Schinnerer
2004, ApJL, 615, 109

New Reference Galaxy Standards for HI Emission Observations
K. O'Neil
2004, AJ, 128, 2080

Star Formation in HI Selected Galaxies I: Sample Characteristics
J. F. Helmboldt, R.A.M. Walterboss, G.D. Bothun, K. O'Neil, W.J.G. de Blok
2004, ApJ, 613, 914

Journal Articles, cont.:

A search for low surface brightness dwarf galaxies in different environments
S. Roberts, J. Davies, S. Sabatini, W. van Driel, K. O'Neil, M. Baes, S. Linder, R. Smith, & R. Evans
2004, MNRAs, 352, 478

A Search for Low Surface Brightness galaxies in the Near-Infrared: II. Arecibo HI line observations
D. Monnier Ragaigne,W. van Driel,K. O'Neil,S.E. Schneider,C. Balkowski, & T.H. Jarrett
2003, A&A 408, 67

Chemical and Spectrophotometric Evolution of Low Surface Brightness Galaxies
S. Boissier, D. Monnier Ragaigne, N. Prantzos, W. van Driel, C. Balkowski, & K. O'Neil
2003, MNRAS 343, 653

A Study of HI-selected galaxies in the Hercules cluster
J. Iglesias-Pramo, W. van Driel, P.-A. Duc, P. Papaderos, J. M. Vlchez, V. Cayatte, C. Balkowski, K. O'Neil, J. Dickey, H. Herndez, T.X. Thuan
2003, A&A 406, 453

The First CO Map of an LSB Galaxy
K. O'Neil, E. Schinnerer
2003, ApJL 588, 35

Galaxy Populations and Evolution in Clusters. IV. Deep H I Observations of Dwarf Elliptical Galaxies in the Virgo Cluster
C. Conselice, J. Gallagher, R. Wyse, K. O'Neil
2003, ApJ 591, 167

The z<0.1 Surface Brightness Distribution
K. O'Neil, Stefano Andreon, J.-C. Cuillandre
2003, A&A, 399, 35

Further Discoveries of ^{12}CO in Low Surface Brightness Galaxies
K. O'Neil, E. Schinnerer, P. Hofner
2003, ApJ 588, 230

Non-confirmation of Reported H I Clouds without Optical Counterparts in the Hercules Cluster
W. van Driel, K. O'Neil, V. Cayette, P.-A. Duc, J. Dickey, C. Balkowski, H. Hernandez, J. Iglesias-Páramo, J.M. Vílchez, T.X. Thuan
2003, A&A 399, 433

Low Surface Brightness Galaxies and the Tully-Fisher Relation
A. Chung, J. van Gorkom, K. O'Neil, G. Bothun
2002, AJ, 123, p. 2387.

Journal Articles, cont.:

A Study of 2MASS Low Surface Brightness Galaxies
D. Monnier Ragaigne, W. van Driel, C. Balkowski, S.E. Schneider, T.H. Jarrett, & K. O'Neil
2002, Aip&SS 281, 145

Mueller Matrix Parameters for Radio Telescopes and Their Observational Determination
C. Heiles, P. Perillat, D. Lorimer, M. Nolan, R. Bhat, T. Ghosh, M. Lewis, K. O'Neil, C. Salter, S, Stanamirovic
2001, PASP, 113, p. 1247.

All Stokes Parameterization of the Main Beam and First Sidelobe for Radio Telescopes
C. Heiles, P. Perillat, M. Nolan, D. Lorimer, R. Bhat, T. Ghosh, M. Lewis, K. O'Neil, C. Salter, S, Stanamirovic
2001, PASP, 113, p. 1274.

First Detection of CO in a Low Surface Brightness Galaxy
K. O'Neil, P. Hofner, E. Schinnerer
2000, ApJ, 545, p. L99.

Structural Characteristics of Faint Galaxies Serendipitously Discovered with the HST WFPC-2
K. O'Neil, G. D. Bothun, C.D. Impey
2000, ApJS, 128, p. 99.

Star Formation and Tidal Encounters with the Low Surface Brightness Galaxy UGC 12695 and Companions
K. O'Neil, M. Verheijen, S. McGaugh
2000, AJ, 119, p. 2154.

The Space Density of Galaxies through $\mu_B(0) = 25.0$ *mag arcsec*$^{-2}$
K. O'Neil, G. D. Bothun
2000, ApJ, 529, p. 811.

Erratum: "Hubble Space Telescope WFPC2 Imaging of Three Low Surface Brightness Dwarf Elliptical Galaxies in the Virgo Cluster" [Astron. J. 118, 1618 (1999)]
K. O'Neil, G. D. Bothun, & C. Impey
2000, AJ 119, 984

Red, Gas Rich Low Surface Brightness Galaxies and Enigmatic Deviations from the Tully-Fisher Relation
K. O'Neil, G. D. Bothun, J. Schombert
2000, AJ, 119, p. 136.

Hubble Space Telescope WFPC-2 Imaging of Three Low Surface Brightness Galaxies in the Virgo Cluster
K. O'Neil, G. D. Bothun, C.D. Impey
1999, AJ, 118, p. 1618.

Journal Articles, *continued***:**

The Effects of Starburst Activity on Low Surface Brightness Galaxies
K. O'Neil, G. D. Bothun, J. Schombert
1998, AJ, 116, p. 2776.

Hubble Space Telescope WFPC-2 Images of UGC 12695: A Remarkably Unevolved Galaxy
K. O'Neil, G. D. Bothun, C.D. Impey, S. McGaugh
1998, AJ, 116, p. 657.

A Wide Field CCD Survey for Low Surface Brightness Galaxies: II. Color Distributions, Stellar Populations, and Missing Baryons
K. O'Neil, G. D. Bothun, J. Schombert, Mark E. Cornell, C.D. Impey
1997, AJ, 114, p. 2448.

A Wide Field CCD Survey for Low Surface Brightness Galaxies: I. Data Acquisition, Description and Initial Results
K. O'Neil, G. D. Bothun, Mark E. Cornell
1997, AJ, 113, p. 1212.

Faint Fuzzy Stuff: The Missing Baryons?
K. O'Neil
1997 PASP 109, p. 1395.

Deep UV Imaging of Galaxies in the Fornax Cluster
K. O'Neil, G. D. Bothun, Eric P. Smith, T.P. Stecher
1996 AJ, 112, p. 431.

Conference Proceedings:

Pseudo-Real-Time Signal Visualization during Pulsar Observations on the Green Bank Telescope
C.J. Kelly & K. O'Neil
2005, BAAS, 20515, 313

ce-61: a Tidal Dwarf Galaxy in the Hercules cluster?
W. van Driel, P.A. Duc, P. Amram, F. Bournaund, C. Balkowski, V. Cayatte, J. Dickey, H. Hernandez, J. Iglesias-Paramo, K. O'Neil, P. Papaderos, J.M. Vilchez
Recycling Intergalactic and Interstellar Matter P.A. Duc, J. Braine, and E. Brinks, eds.
2004 IAU Symposium Series, 217, 564

Increasing the Accessibility of GBT Data
Karen O'Neil, Nicole Radziwill, Ronald J. Maddalena
Astronomical Data Analysis Software and Systems XII H. Payne, R. Jedrzejewski & R. Hook, eds. (San Francisco:ASP) (2004), pg 70.

New Reference Catalog of Extragalactic HI Observations
K. O'Neil
2003 AAS 203, 5710.

Conference Proceedings, *continued*:

Exploring the Sensitivity Limit: 21-cm Observations of Low Surface Brightness Galaxies with the Arecibo Telescope
K. O'Neil, J. Eder, G. D. Bothun, J. Schombert
The NAIC/NRAO School on Single Dish Radio Astronomy Salter, et.al eds.
(San Francisco:ASP) (2002) p. 511.

Single-Dish Calibration Techniques at Radio Wavelengths
K. O'Neil
The NAIC/NRAO School on Single Dish Radio Astronomy Salter, et.al eds.
(San Francisco:ASP) (2002) p. 293.

Doubling the Number of Massive LSB Galaxies
K. O'Neil
Seeing Through the Dust – The Detection of HI and the Exploration of the ISM in Galaxies
Taylor, Landecke, Willis, eds. (San Francisco:ASP) (2002) p. 427.

Further Discoveries of ^{12}CO in Low Surface Brightness Galaxies – Disk Molecular Gas or an Indicator of AGN Activity?
K. O'Neil & E. Schinnerer 2002 AAS 201, 11607

New Standard Catalog of Arecibo HI Observations
R. Wilcox, K. O'Neil, & J. Eder
2002 AAS 201, 5214.

Star Formation Properties of HI Selected Galaxies II. HII Regions Characteristics
R. A. M. Walterbos, J. F. Helmboldt, G. D. Bothun, K. O'Neil
2002 AAS, 200, p. 4304.

Star Formation Properties of HI Selected Galaxies I. Overall properties
J. F. Helmboldt, R. A. M. Walterbos, G. D. Bothun, K. O'Neil, W. J. G. de Blok
2002 AAS, 200, p. 4303.

The HI Content and Extent of Low Surface Brightness Galaxies, or Could LSB Galaxies Be Responsible for Damped Ly-α absorption?
K. O'Neil
Extragalactic Gas at Low Redshift Mulchahy, et.al eds. (San Francisco:ASP) (2002) p. 202.

HI Line Observations of Near-Infrared Selected Low Surface Brightness Galaxies
W. Van Driel, D. Monnier Ragaigne, C. Balkowski, S. Schneider, T. Jarrett, K. O'Neil
XXVIIth General Assembly of the International Union of Radio Science (2002).

A Study of 2MASS Low Surface Brightness Galaxies
D. Monnier-Ragaigne, W. van Driel, C. Balkowski, S. Schneider, T.H. Jarrett, K. O'Neil
The Evolution of Galaxies II - Basic Building Blocks
(Netherlands: Khaver Academic Publishers) (2002).

The Recent Formation of Low-Mass Galaxies in the Virgo Cluster
C. Conselice, J. Gallagher, R. Wyse, K. O'Neil
2001 AAS, 199, p. 16012

Conference Proceedings, *continued*:

CO in Low Surface Brightness Galaxies
K. O'Neil, P. Hofner, E. Schinnerer
2001 AAS, 199, p. 7205.

Observing with the Upgraded Arecibo Telescope: An Introduction
K. O'Neil
2001 AAS, 198, p. 8901.

Optical Spectroscopy of Red LSB Galaxies
K. O'Neil
2001 AAS, 198, p. 8103.

Star Formation Properties of HIPASS Galaxies I: Sample Characteristics
J. F. Helmboldt, R. A. M. Walterbos, G. D. Bothun, W. J. G. de Blok, K. O'Neil
2001 AAS, 198, p. 7903.

Exploring the Sensitivity Limit: 21-cm Observations of Low Surface Brightness Galaxies with the Arecibo Telescope
J. Eder, K. O'Neil, G. D. Bothun, J. Schombert
2001 AAS, 198, p. 7508

21 cm Spectroscopy with the Upgraded Arecibo Telescope
J. Eder, K. O'Neil
Gas and Galaxy Evolution, eds. J. Hibbard, M. Rupen, J. van Gorkom
(San Francisco:ASP) (2001) p, 462.

The Gas Content and Stellar Populations of Red Low Surface Brightness Galaxies
K. O'Neil
Gas and Galaxy Evolution, eds. J. Hibbard, M. Rupen, J. van Gorkom
(San Francisco:ASP) (2001) p. 340

The First Optical Spectroscopy of Red LSB Galaxies, and the Possible Discovery of the Largest Galaxy Known
K. O'Neil
2000 AAS, 197, p. 5807.

Extended HI Envelopes Around Low Surface Brightness Galaxies
D. Chin, K. O'Neil
2000 AAS, 197, p. 1459.

The Gas, Stars, and Baryons in Low Surface Brightness Galaxies
K. O'Neil
Stars, Gas and Dust in Galaxies: Exploring the Links, eds. Alloin, Olson, Galaz
(San Francisco:ASP) (2000) p. 199.

The Morphology, Color, and Gas Content of Low Surface Brightness Galaxies
K. O'Neil
Cosmic Evolution and Galaxy Formation: Structure, Interactions, and Feedback; ASP Conference Series J. Franco, E. Terlevich, O. Lopez-Cruz, and I. Aretxaga, eds.
(San Francisco:ASP) (2000) p. 178.

Conference Proceedings, *continued*:

The Space Density of Galaxies in the Local Universe
K. O'Neil, G. Bothun
1999 AAS, 195, p. 12903.

HST WFPC-2 imaging of four nearby Low Surface Brightness Galaxies
K. O'Neil
The Low Surface Brightness Universe, eds. J. Davies, M. Disney, S. Phillipps
(San Francisco:ASP) (1999) p. 210.

The Discovery of Red Low Surface Brightness Galaxies
K. O'Neil
The Low Surface Brightness Universe, eds. J. Davies, M. Disney, S. Phillipps
(San Francisco:ASP) (1999) p. 145.

21-cm Study of Over 100 Newly Discovered, Nearby LSB Galaxies
K. O'Neil, G.D. Bothun
1998 AAS, 193, p. 2802.

The Completely Transparent Galaxy UGC 12695
K. O'Neil, G.D. Bothun, C.D. Impey
1997 AAS, 191, p. 11503.

A Wide Field CCD Survey for Low Surface Brightness Galaxies
K. O'Neil
1996 AAS, 189, p. 11202.

Other Publications:

HI Emission in Extended Galaxies
K. O'Neil & C. Salter
Example Observing Projects for the 2005 NAIC/NRAO Single Dish School
(Arecibo Observatory) (2005).

Apparent Temperatures of Mercury, Mars, Saturn and Venus at X Band
G.Langston, J. Braatz,F. Ghigo, R. Maddalena, T. Minter, & K. O'Neil
GBT Memo 24
HI Spectral Line Observations of Galaxies at Arecibo Observatory
K. O'Neil
Example Observing Projects for the NAIC/NRAO Single Dish School
(Arecibo Observatory) (2001).

The Spectral Line User's Manual
K. O'Neil
The Arecibo User's Manual, C. Salter, ed.
(Arecibo Observatory) (2001).

The Mueller Matrix Parameters for Arecibo's Receiver Systems
C. Heiles, P. Perillat, D. Lorimer, M. Nolan, R. Bhat, T. Ghosh,
M. Lewis, K. O'Neil, C. Salter, S. Stanimirovic
Arecibo Telescope Operations Memo 2000-05

Other Publications:

Man Beam and First Sidelobe Parameters for Arecibo's Receiver Systems
C. Heiles, P. Perillat, M. Nolan, D. Lorimer, R. Bhat, T. Ghosh,
E. Howell, M. Lewis, K. O'Neil, C. Salter, S. Stanimirovic
Arecibo Telescope Operations Memo 2000-04

Faint Fuzzy Stuff: The Missing Baryons?
K. O'Neil
Ph.D. Thesis, University of Oregon, Eugene, OR (1997)

Explosion, Inflation, & History: An Historical Description of Two Cosmological Models
K. O'Neil
Plan of Concentration, Marlboro College, Marlboro, VT (1991)

INVITED TALKS

Karen O'Neil

Massive Low Surface Brightness Galaxies – Recent Results
K. O'Neil – Colloquium given at University of Paris, Meudon (05/05)

The Green Bank Telescope
K. O'Neil – Seminar given at University of Paris, Meudon (05/05)

Massive Low Surface Brightness Galaxies – Recent Results
K. O'Neil – Seminar given at University of Maryland (02/05)

Massive Low Surface Brightness Galaxies – Recent Results
K. O'Neil – Seminar given at NRAO, Charlottesville (01/05)

Recent Discoveries with Massive Low Surface Brightness Galaxies
K. O'Neil – Colloquium given at Cardiff University (08/04)

Finding the Baryons - Massive LSB galaxies out to z=0.1
K. O'Neil – Colloquium given at the Arecibo Observatory (01/04).

Properties, Theories, and Recent Results on Low Surface Brightness Galaxies
K. O'Neil – Colloquium given at University of Calgary (04/02).

Faint Fuzzy Stuff - What are LSB Galaxies and Why Would Anyone Study Them?
K. O'Neil – Pedagogical talk given at University of Calgary (04/02).

CO and AGNS in Low Surface Brightness Galaxies
K. O'Neil – Seminar given at Caltech (04/02).

Crouching Giants? The Properties and Stellar History of Low Surface Brightness Galaxies
K. O'Neil – Colloquium given at Cornell University (09/01).

Calibration Techniques at Radio Wavelengths
K. O'Neil – Talk given at the NAIC/NRAO School on Single Dish Radio Astronomy (06/01).

Observing with the Upgraded Arecibo Telescope: An Introduction
K. O'Neil – Talk given at AAS meeting in Pasadena, CA (06/01).

Low Surface Brightness Galaxies – Enigmatic Systems in the Local Universe
K. O'Neil – Colloquium given at the University of Wisconsin, Madison (11/00).

Galaxies: Our View onto the Cosmos
K. O'Neil – Public talk given at the University of Wisconsin, Superior (10/00).

INVITED TALKS *continued*

Low Surface Brightness Galaxies – Enigmatic Systems in the Local Universe
K. O'Neil – Colloquium given at the University of Minnesota, Minneapolis (10/00).

Astronomia Alrededor del Mundo
K. O'Neil – Public talk given at SEENI in Arecibo, Puerto Rico (07/00).

The Color, Morphology, and Stars in Low Surface Brightness Galaxies
K. O'Neil – Colloquium given at the Universidad de Puerto Rico, San Juan (11/99).

The Discovery of Red Low Surface Brightness Galaxies
K. O'Neil – Colloquium given at the VLA in Socorro, NM (04/99).

The First Three Minutes: The Standard and Inflationary Cosmologies
K. O'Neil – Public lecture given at Marlboro College in Marlboro, VT (03/91).