

**CURRICULUM VITAE**  
**(Last update: 13 September 2013)**

Prof. Sylvain Veilleux  
Department of Astronomy  
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## 1. PERSONAL INFORMATION

**Name:** Sylvain Veilleux

**Current Position:** Tenured Full Professor, Optical Director  
Department of Astronomy  
University of Maryland (College Park)

**Current Address:** Department of Astronomy  
University of Maryland  
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**Languages:** French and English (Fluent); Spanish and German (Fair)

**Marital Status:** Married, one child

**Education:** B. S. 1984 University of Montreal (physics)  
M. S. 1986 University of California, Santa Cruz (astrophysics)  
Ph.D. 1989 University of California, Santa Cruz (astrophysics)

**Ph. D. Advisor:** Dr. D. E. Osterbrock

**Positions Held:** 2005–... Professor, U. of Maryland  
2003–... Optical Director  
2012 Humboldt Research Awardee (renewed), MPE, Germany  
2012 Senior NPP Fellow, NASA, GSFC  
2009 Humboldt Research Awardee, MPE, Germany  
2003 Visiting Professor, Caltech  
2003 Visiting Research Fellow, Carnegie Obs.  
2000–2005 Associate Professor, U. of Maryland  
1995–2000 Assistant Professor, U. of Maryland  
1992–1995 Hubble Fellow, Kitt Peak Nat. Obs.  
1989–1992 NSERC (Canada) Fellow, IfA, U. Hawaii

**Memberships:** International Astronomical Union (1995)  
American Astronomical Society (1989)  
Canadian Astronomical Society (1989)

## 2. RESEARCH, SCHOLARLY, AND CREATIVE ACTIVITIES

**Citations:** 10205 citations in total (4211 as lead author), 79 refereed articles with at least 30 citations, and 26 high-impact papers with more than 100 citations (Veilleux is the lead author on 11 of these). *H-index* = 54 (26 for papers where Veilleux is the first author) [data last updated on 13 September 2013]

### a. Books

*i. Books authored*

*ii. Books edited*

*iii. Chapters in books.*

1. Cecil, G., Bland-Hawthorn, J., & **Veilleux, S.** 2000, “The Lives of Quasars” in *Scientific American: Book of the Cosmos*, **Chap. 2**, pp. 49–56 (Macmillan: New York), ed. D. Levy.
2. **Veilleux, S.**, Cecil, G.N., & Bland-Hawthorn, J. 2000, “Colossal Galactic Explosions”, in *Scientific American: Book of the Cosmos*, **Chap. 3**, pp. 83–90 (Macmillan: New York), ed. D. Levy.

### b. Articles in Refereed Journals

*i. Published.*

1. Wesemael, F., **Veilleux, S.**, Lamontagne, R., Fontaine, G., and Holberg, J. B., 1985, “Studies of Hot B Subdwarfs. II. Energy Distribution of three Bright sdB/sdOB Stars in the 950-5500 Å range.”, *Ap. J.*, **298**, 859–866.
2. Osterbrock, D. E., & **Veilleux, S.** 1986, “Spectral Classification of Emission-line Galaxies”, *Pub. A. S. P.*, **98**, 1106–1106
3. **Veilleux, S.**, and Osterbrock, D. E. 1987, “Spectral Classification of Emission-line Galaxies”, *Ap. J. Suppl.*, **63**, 295–310
4. **Veilleux, S.** 1988, “A Search for Variations of [Fe X]  $\lambda$ 6375 and [Fe VII]  $\lambda$ 6087 in High-ionization Seyfert Galaxies” , *A. J.*, **95**, 1695–1705.
5. Goodrich, R. W, and **Veilleux, S.** 1988, “Reduction of Hamilton Echelle Data at Lick Observatory”, *Publ. A.S.P.*, **100**, 1572–1581.

6. Mathews, W. G., and **Veilleux, S.** 1989, “Stability of Narrow Emission line Clouds in Active Galactic Nuclei” with W. G. Mathews, *Ap. J.*, **336**, 93–102.
7. Osterbrock, D. E., Shaw, R. A., and **Veilleux, S.** 1990, “Near-Infrared Emission-line Spectra of the Orion Nebula, NGC 4151, and Other Seyfert Galaxies”, *Ap. J.*, **352**, 561–573.
8. **Veilleux, S.** 1991, “A Study of the Structure and Kinematics of the Narrow-Line Region of Seyfert Galaxies. I. Atlas of Line Profiles ”, *Ap. J. Suppl.*, **75**, 357–381.
9. **Veilleux, S.** 1991, “A Study of the Structure and Kinematics of the Narrow-Line Region of Seyfert Galaxies. II. Analysis of Line Profile Parameters ”, *Ap. J. Suppl.*, **75**, 383–406.
10. **Veilleux, S.** 1991, “A Study of the Structure and Kinematics of the Narrow-Line Region of Seyfert Galaxies. III. Individual Objects ”, *Ap. J.*, **369**, 331–363.
11. **Veilleux, S.** 1991, “The Line-Emitting Regions of the Exceptional Seyfert Galaxy Mrk 359”, *Ap. J.*, **368**, 158–166.
12. Peterson et al. 1991, “Steps toward Determination of the Size and Structure of the Broad-Line Region in Active Galactic Nuclei. II. An Intensive Study of NGC 5548 at Optical Wavelengths”, *Ap. J.*, **368**, 119–137.
13. **Veilleux, S.**, and Zheng, W. 1991, “Unique Broad-Line Profile Variations in the Radio Galaxy 3C 390.3”, *Ap. J.*, **377**, 89–99.
14. Zheng, W., **Veilleux, S.**, and Grandi, S. A. 1991, “3C 390.3: Modeling Variable Profile Humps”, *Ap. J.*, **381**, 418–425.
15. Osterbrock, D. E., Tran, H. D., and **Veilleux, S.** 1992, “Near-Infrared Spectra and Classification Diagnostics of Seyfert Galaxies”, *Ap. J.*, **389**, 196–207.
16. Osterbrock, D. E., Tran, H. D., and **Veilleux, S.** 1992, “Faint Emission Lines in the Spectrum of the Orion Nebula and the Abundances of Some of the Rarer Elements”, *Ap. J.*, **389**, 305–324.
17. **Veilleux, S.**, Tully, R. B., & Bland-Hawthorn, J. 1993, “On the Origin of the Z-Shaped Narrow Line Region in the Seyfert Galaxy NGC 3516”, *A. J.*, **105**, 1318–1332.
18. Dietrich, M., et al. 1993, “Steps Toward Determination of the Size and Structure of the Broad-Line Region in Active Galactic Nuclei. IV. Intensity Variations of the Optical Emission Lines of NGC 5548.”, *Ap. J.*, **408**, 416–427.
19. **Veilleux, S.** 1993, “The Line-Emitting Gas in Active Galaxies: A Probe of the Nuclear Engine”, *Pub. A. S. P.*, **105**, 1038–1042.
20. **Veilleux, S.** 1993, “Luminous Infrared Galaxies: AGN or Starbursts?”, *Rev. Mexicana Astron. Ap.*, **27**, 65–72.

21. Goodrich, R. W., **Veilleux, S.**, & Hill, G. J. 1994, “Infrared Spectroscopy of Seyfert 2s: A Look through the Obscuring Torus?”, *Ap. J.*, 422, 521–536.
22. **Veilleux, S.**, Cecil, G., Bland-Hawthorn, J., Tully, R. B., Filippenko, A. V., & Sargent, W. L. W. 1994, “The Nuclear Superbubble of NGC 3079”, *Ap. J.*, **433**, 48–64.
23. Bland-Hawthorn, J., Taylor, K., **Veilleux, S.**, & Shopbell, P. L. 1994, “A Search for Diffuse H $\alpha$  Emission from Ly $\alpha$  Absorption clouds towards 3C 273”, *Ap. J. (Letters)*, **437**, L95–L98.
24. Wells, L. A., et al. 1994, “The Type Ia Supernova 1989B in NGC 3627 (M 66)”, *A. J.*, **108**, 2233–2250.
25. Korista, K. T., et al. 1995, “Steps toward Determination of the Size and Structure of the Broad-Line Region in Active Galactic Nuclei. VII. An Intensive HST, IUE, and Ground-Based Study of NGC 5548”, *Ap. J.*, **97**, 285–330.
26. Kim, D.-C., Sanders, D. B., **Veilleux, S.**, Mazzarella, J. M., & Soifer T. M. 1995, “Optical Spectroscopy of Luminous Infrared Galaxies. I. Nuclear Data”, *Ap. J. Suppl.*, **98**, 129–170.
27. **Veilleux, S.**, Kim, D.-C., & Sanders, D. B., Mazzarella, J. M., & Soifer T. M. 1995, “Optical Spectroscopy of Luminous Infrared Galaxies. II. Analysis of the Nuclear and Long-Slit Data”, *Ap. J. Suppl.*, **98**, 171–217.
28. **Veilleux, S.**, Cecil, G., & Bland-Hawthorn, J. 1995, “The Interstellar Disk-Halo Connection in the Spiral Galaxy NGC 3079”, *Ap. J.*, 445, 152–160.
29. Cecil, G., Morse, J. A., & **Veilleux, S.** 1995, “Spectral Evidence for Shock Ionized Gas Along the Jets of NGC 4258”, *Ap. J.*, **452**, 613–626.
30. Meikle, W. P. S. et al. 1996, “An early-time infrared and optical study of the Type IA supernovae SN 1994D and 1991T,” *M. N. R. A. S.*, **281**, 263–280.
31. **Veilleux, S.**, Goodrich, R. W., & Hill, G. 1997, “Infrared Spectroscopy of Seyfert 2s: A Look through the Obscuring Torus? Part II”, *Ap. J.*, **477**, 631–660.
32. **Veilleux, S.**, & Bland-Hawthorn, J. 1997, “Artillery Shells over Circinus”, *Ap. J. (Letters)*, **479**, L105–L108.
33. **Veilleux, S.**, Sanders, D. B., & Kim, D.-C. 1997, “A Near-Infrared Search for Hidden Broad-Line Regions in Ultraluminous Infrared Galaxies”, *Ap. J.*, **484**, 92–107.
34. Surace, J., Sanders, D. B., **Veilleux, S.**, & Mazzarella, J. M. 1998, “HST/WFPC2 Observations of Warm Ultraluminous Infrared Galaxies”, *Ap. J.*, **492**, 116–136.

35. Colbert, E. J. M., Baum, S. A., O’Dea, C. P., & **Veilleux, S.** 1998, “Large-Scale Outflows in Edge-On Seyfert Galaxies. III. Kiloparsec-Scale Soft X-ray Emission”, *Ap. J.*, **496**, 786–796.
36. Groot, P. J., et al. 1998, “The Rapid Decay of the Optical Emission from GRB 980326 and its Possible Implications”, *Ap. J. (Letters)*, **502**, L123–L127.
37. Bland-Hawthorn, J., **Veilleux, S.**, Cecil, G. N., Putman, M. E., Gibson, B. K., & Maloney, P. R. 1998, “The Smith Cloud: HI associated with the Sgr Dwarf?”, *M.N.R.A.S.*, **299**, 611–624.
38. Kim, D.-C., **Veilleux, S.**, & Sanders, D. B. 1998, “The IRAS 1 Jy Sample of Ultraluminous Infrared Galaxies: II. Optical Spectroscopy”, *Ap. J.*, **508**, 627–647.
39. Lutz, D., **Veilleux, S.**, & Genzel, R. 1999, “Mid-Infrared and Optical Spectroscopy of Ultraluminous Infrared Galaxies: A Comparison”, *Ap. J. (Letters)*, **517**, L13–L17
40. **Veilleux, S.**, Bland-Hawthorn, J., Cecil, G., Tully, R. B., & Miller, S. T. 1999, “Galactic-Scale Outflow and Supersonic Ram-Pressure Stripping in the Virgo Cluster Galaxy NGC 4388”, *Ap. J.*, **520**, 111–123.
41. **Veilleux, S.**, Kim, D.-C., & Sanders, D. B. 1999, “Optical Spectroscopy of the *IRAS* 1 Jy Sample of Ultraluminous Infrared Galaxies”, *Ap. J.*, **522**, 113–138.
42. **Veilleux, S.**, Sanders, D. B., & Kim, D.-C. 1999, “New Results from a Near-Infrared Search for Hidden Broad-Line Regions in Ultraluminous Infrared Galaxies”, *Ap. J.*, **522**, 139–156.
43. Shopbell, P. L., **Veilleux, S.**, and Bland-Hawthorn, J. 1999, “A Very Extended Ionized Nebula around the Quasar MR2251-178”, *Ap. J. (Letters)*, **524**, L83–L86.
44. **Veilleux, S.**, Bland-Hawthorn, J., & Cecil, G. 1999 “A Kinematic Link between Boxy Bulges, Stellar Bars, and Nuclear Activity in NGC 3079 and NGC 4388”, *A. J.*, **118**, 2108–2122.
45. Riess, A. G., et al. 2001, “The Farthest Known Supernova: Support for an Accelerating Universe and a Glimpse of the Epoch of Deceleration”, *Ap. J.*, **560**, 49–71.
46. Cecil, G., **Veilleux, S.**, Bland-Hawthorn, J., & Filippenko, A. V. 2001, “Jet- and Wind-Driven Ionized Outflows in the Superbubble and Star-Forming Disk of NGC 3079”, *Ap. J.*, **555**, 338–355.
47. Fassia, A., et al. 2001, “Optical and Infrared Spectroscopy of the Type IIIn SN 1998S: days 3-127”, *MNRAS*, **325**, 907–930.

48. **Veilleux, S.**, Shopbell, P. L., & Miller, S. T. 2001, “The Biconical Outflow in the Seyfert Galaxy NGC 2992”, *AJ*, **121**, 198–209.
49. Rupke, D. S., **Veilleux, S.**, & Sanders, D. B. 2002, “Keck Absorption-Line Spectroscopy of Galactic Winds in Ultraluminous Infrared Galaxies”, *Ap. J.*, **570**, 588–609.
50. **Veilleux, S.**, & Rupke, D. S. 2002, “Identification of Galactic Wind Candidates using Excitation Maps: Tunable-Filter Discovery of a Shock-Excited Wind in the Galaxy NGC 1482”, *Ap. J.*, **565**, L63–L66.
51. Ajiki, M., et al. 2002, “A New High-Redshift Lyman $\alpha$  Emitter: Possible Superwind Galaxy at  $z = 5.69$ ”, *Ap. J.*, **576**, L25–L28.
52. Cecil, G., Bland-Hawthorn, J., & **Veilleux, S.** 2002, “Tightly Correlated X-ray/H $\alpha$  Emitting Filaments in the Superbubble and Large-Scale Superwind of NGC 3079”, *Ap. J.*, **576**, 745–752.
53. Kim, D.-C., **Veilleux, S.**, & Sanders, D. B. 2002, “Optical and Near-Infrared Imaging of the IRAS 1-Jy Sample of Ultraluminous Infrared Galaxies. I. The Data”, *Ap. J. Suppl.*, **143**, 277–314.
54. **Veilleux, S.**, Kim, D.-C., & Sanders, D. B. 2002, “Optical and Near-Infrared Imaging of the IRAS 1-Jy Sample of Ultraluminous Infrared Galaxies. II. The Analysis”, *Ap. J. Suppl.*, **143**, 315–376.
55. Taniguchi, Y., et al. 2003, “The Discovery of a Very Narrow Line Star-forming Object at a Redshift of 5.66”, *Ap. J. (Letters)*, **585**, L97–L100.
56. Miller, S. T., & **Veilleux, S.** 2003, “Extraplanar Emission-Line Gas in Edge-On Spiral Galaxies. I. Deep Emission-Line Imaging”, *Ap. J. Suppl.*, **148**, 383–417.
57. Miller, S. T., & **Veilleux, S.** 2003, “Extraplanar Emission-Line Gas in Edge-On Spiral Galaxies. II. Long-Slit Spectroscopy”, *Ap. J.* **592**, 79–110.
58. Nagar, N. M., Wilson, A. S., Falcke, H., **Veilleux, S.**, & Maiolino, R. 2003, “The AGN content of ultraluminous IR galaxies: High resolution VLA imaging of the IRAS 1 Jy ULIRG sample”, *A&A*, **409**, 115–121.
59. Putman, M. E., Bland-Hawthorn, J., **Veilleux, S.**, Gibson, B. K., Freeman, K. C., & Maloney, P. R. 2003, “H $\alpha$  Emission from High-Velocity Clouds and Their Distances”, *Ap. J.*, **597**, 948–956.
60. Yun, M. S., et al. 2003, “Radio and FIR Sources in the Lockman Hole ISOPHOT Survey Field”, *RMxAC*, **17**, 271–271.
61. **Veilleux, S.**, Shopbell, P. L., Rupke, D. S., Bland-Hawthorn, J., & Cecil, G. 2003, “A Search for Very Extended Ionized Gas in Nearby Starburst and Active Galaxies”, *A. J.*, **126**, 2185–2208.

62. **Veilleux, S.**, & Rupke, D. S. 2004, “Galactic Winds and the Missing Baryons”, *Pub. A.S.A.*, **21**, 393–395.
63. **Veilleux, S.**, Cecil, G., & Bland-Hawthorn, J. 2005, “Galactic Winds”, *A.R.A.A.*, **43**, 769-826.
64. Farrah, D., Surace, J. A., **Veilleux, S.**, Sanders, D. B., & Vacca, W. 2005, ”Space Telescope Imaging Spectrograph Ultraviolet/Optical Spectroscopy of Warm Ultraluminous Infrared Galaxies”, *Ap. J.*, **626**, 70-88.
65. Rupke, D. S., **Veilleux, S.**, & Sanders, D. B. 2005a, “Outflows in Infrared-Luminous Starbursts at  $z < 0.5$ . I. Sample, Na I D Spectra, and Profile Fitting.”, *Ap. J. (Suppl.)*, **160**, 87-114.
66. Rupke, D. S., **Veilleux, S.**, & Sanders, D. B. 2005b, “Outflows in Infrared-Luminous Starbursts at  $z < 0.5$ . II. Analysis and Discussion”, *Ap. J. (Suppl.)*, **160**, 115-148.
67. Rupke, D. S., **Veilleux, S.**, & Sanders, D. B. 2005c, “Outflows in Active Galactic Nucleus/Starburst-Composite Ultraluminous Infrared Galaxies”, *Ap. J.*, **632**, 751-780.
68. Rupke, D. S., & **Veilleux, S.** 2005, “Keck High-Resolution Spectroscopy of Outflows in Infrared-luminous Galaxies”, *Ap. J. (Letters)*, **631**, L37-L40.
69. Colbert, E. J. M., Strickland, D. K., **Veilleux, S.**, & Weaver, K. A. 2005, “Extranuclear X-ray Emission in the Edge-On Seyfert Galaxy NGC 2992”, *Ap. J.*, **628**, 113-128.
70. Teng, S., Wilson, A. S., **Veilleux, S.**, Young, A. J., Sanders, D. B., & Nagar, N. M. 2005, “A *Chandra* X-Ray Survey of Ultraluminous Infrared Galaxies”, *Ap. J.*, **633**, 664-679.
71. Oyabu, S., Yun, M. S., Murayama, T., Sanders, D. B., Kawara, K., Taniguchi, Y., **Veilleux, S.**, et al. 2005, “Optical Identification of ISO far-infrared sources in the Lockman Hole using a deep VLA 1.4 GHz continuum survey”, *A. J.*, **130**, 2019-2042.
72. Sturm, E., et al. 2005, “Silicate Emissions in Active Galaxies: From LINERs to QSOs”, *Ap. L. (Letters)*, 629, L21-L23.
73. Dasyra, K. M., et al. 2006, “Dynamical Properties of Ultraluminous Infrared Galaxies. I. Mass Ratio Conditions for ULIRG Activity in Interacting Pairs.”, *Ap. J.*, **638**, 745-758.
74. **Veilleux, S.**, et al. 2006, “A Deep Hubble Space Telescope H-band Imaging Survey of Massive Gas-Rich Mergers”, *Ap. J.*, **643**, 707-723.



75. Dasyra, K. M., et al. 2006, “Dynamical Properties of Ultraluminous Infrared Galaxies. II. Tracing the Evolution of the stellar kinematics during the Ultraluminous phases(s) of local mergers”, *Ap. J.*, **651**, 835-852.
76. Mazzuca, L. M., Sarzi, M., Knapen, J. H., **Veilleux, S.**, & Swaters, R. 2006, “Minor Merger Origin for the Circumnuclear Starburst in NGC 7742”, *Ap. J.*, **649**, L79-L82.
77. Schweitzer, M., et al. 2006, “Spitzer Quasar and ULIRG Evolution Study (QUEST). I. The Origin of the Far-Infrared Continuum of QSOs”, *Ap. J.*, **649**, 79-90.
78. Sturm, E., et al. 2006, “Mid-Infrared Diagnostics of LINERs”, *Ap. J.*, **653**, L13-L16.
79. Dasyra, K., et al. 2007, “Host Dynamics and Origin of Palomar-Green QSOs”, *Ap. J.*, **657**, 102-115.
80. Zauderer, B. A., **Veilleux, S.**, & Yee, H. K. C. 2007, “The Environment of Local Ultraluminous Infrared Galaxies”, *Ap. J.*, **659**, 1096-1105.
81. Lutz, D., Sturm, E., Tacconi, L. J., Valiante, E., Schweitzer, M., Netzer, H., Maiolino, R., Andreani, P., Shemmer, O., & **Veilleux, S.** 2007, “PAH Emission and Star Formation in the Host of the  $z \sim 2.56$  Cloverleaf QSO”, *Ap. J.*, **661**, L25-L28.
82. Netzer, H., Lutz, D., Schweitzer, M., Contursi, A., Sturm, E., Tacconi, L. J., **Veilleux, S.**, Kim, D.-C., Rupke, D., Baker, A. J., Dasyra, K., Mazzarella, J., Lord, S. 2007, “Spitzer Quasar and ULIRG Evolution Study (QUEST): II. The Spectral Energy Distributions of Palomar-Green Quasars”, *Ap. J.*, **666**, 806-816.
83. Howell, J. H., et al. 2007, “Tracing PAHs and Warm Dust Emission in the Seyfert Galaxy NGC 1068”, *A. J.*, **134**, 2086-2097.
84. Teng, S. H., **Veilleux, S.**, Wilson, A. S., Young, A. J. & Sanders, D. B. 2008, “XMM-Newton Detection of a Compton-thick AGN in the 1 Jy ULIRG/LINER F04103-2838”, *Ap. J.*, **674**, 133-141.
85. Rupke, D. S. N., **Veilleux, S.**, & Baker, A. J. 2008, “The Oxygen Abundances of Luminous and Ultraluminous Infrared Galaxies”, *Ap. J.*, **674**, 172-193.
86. Mazzuca, L. M., Knapen, J. H., **Veilleux, S.**, & Regan, M. W. 2008, “A Connection between Star Formation in Nuclear Rings and Their Host Galaxies”, *Ap. J. Suppl.*, **174**, 337-365.
87. Schweitzer, M., et al. 2008, “Extended Silicate Dust Emission in PG QSOs”, *Ap. J.*, **679**, 101-117.

88. Lutz, D., et al. 2008, “Star Formation in the Hosts of High-z QSOs: Evidence from Spitzer PAH Detection”, *Ap. J.*, **684**, 853-861.
89. **Veilleux, S.** 2008, “AGN Host Galaxies”, presented at the August 2007 VLTI Summer School on “Active Galactic Nuclei at the highest resolution: Theory and Observation” in Torun, Poland, *New Astronomy Reviews*, **52**, 289-306 . (4 invited lectures)
90. Teng, S. H., **Veilleux, S.**, et al. 2009, “Suzaku Observations of Local Ultraluminous Infrared Galaxies”, *Ap. J.*, **691**, 261-276.
91. **Veilleux, S.**, et al. 2009, “Spitzer Quasar and ULIRG Evolution Study (QUEST). IV. Comparison of 1-Jy Ultraluminous Infrared Galaxies with Palomar-Green Quasars”, *Ap. J. Suppl.*, **182**, 628-666.
92. **Veilleux, S.**, et al. 2009, “A Deep Hubble Space Telescope H-Band Imaging Survey of Massive Gas-Rich Mergers. II. The QUEST QSOs”, *Ap. J.*, **701**, 587-606.
93. **Veilleux, S.**, Rupke, D. S. N., & Swaters, R. 2009, “Warm Molecular Hydrogen in the Galactic Wind of M82”, *Ap. J. Letters*, **700**, L149-L153.
94. Armus, L., et al. 2009, “GOALS: The Great Observatories All-Sky LIRG Survey”, *Pub. A. S. P.*, **121**, 559-576.
95. McDonald, M., & **Veilleux, S.** 2009, “MMTF-H $\alpha$  and HST-FUV Imaging of Filamentary Complex in Abell 1795”, *Ap. J. (Letters)*, **703**, 172-L177.
96. **Veilleux, S.**, et al. 2010, “MMTF: The Maryland-Magellan Tunable Filter”, *A. J.*, **139**, 145-157.
97. Krug, H., Rupke, D. S. N., & **Veilleux, S.** 2010, “Neutral Gas Outflows and Inflows in Infrared-faint Seyfert Galaxies”, *Ap. J.*, **708**, 1145-1161.
98. Winter, L., et al. 2010, “Optical Spectral Properties of Swift Burst Alert Telescope Hard X-Ray-Selected Active Galactic Nuclei Sources”, *Ap. J.*, **710**, 503-539.
99. Howell, J. H., et al. 2010, “The Great Observatories All-sky LIRG Survey: Comparison of Ultraviolet and Far-infrared Properties”, *Ap. J.*, **715**, 572-588.
100. Koss, M., Mushotzky, R., **Veilleux, S.**, & Winter, L. 2010, “Merging and Clustering of the Swift BAT AGN Sample”, *Ap. J.*, **716**, L125-L130.
101. van der Werf, P. P., et al. 2010, “Black hole accretion and star formation as drivers of gas excitation and chemistry in Markarian 231”, *A. & A.*, **518**, L42-L46.
102. Gonzalez-Alfonso, E., et al. 2010, “Herschel observations of water vapour in Markarian 231”, *A. & A.*, **518**, L43-L47.

103. Inami, H., et al. 2010, “The Buried Starburst in the Interacting Galaxy II Zw 096 as Revealed by the Spitzer Space Telescope”, *A. J.*, **140**, 63-74.
104. Fadda, D., et al. 2010, “Ultra-deep Mid-infrared Spectroscopy of Luminous Infrared Galaxies at  $z \sim 1$  and  $z \sim 2$ ”, *Ap. J.*, **719**, 425-450.
105. McDonald, M., **Veilleux, S.**, Rupke, D. S. N., & Mushotzky, R. 2010, “On the Origin of the Extended  $H\alpha$  Filaments in Cooling Flow Clusters”, *Ap. J.*, **721**, 1262-1283.
106. Tilvi, V., et al. 2010, “The Luminosity Function of  $Ly\alpha$  Emitters at Redshift  $z = 7.7$ ”, *Ap. J.*, **721**, 1853-1860.
107. Diaz-Santos, T., et al. 2010, “The Spatial Extent of (U)LIRGs in the Mid-infrared. I. The Continuum Emission”, *Ap. J.*, **723**, 993-1005.
108. Teng, S. H., & **Veilleux, S.** 2010, “X-QUEST: A Comprehensive X-ray Study of Local ULIRGS and QSOs”, *Ap. J.*, **725**, 1848-1876.
109. Rupke, D. S. N., & **Veilleux, S.** 2011, “Integral Field Spectroscopy of Massive, Kiloparsec-scale Outflows in the Infrared-luminous QSO Mrk 231”, *Ap. J.*, **729**, L27-L33.
110. Jacobs, B. A., et al. 2011, “Identification of a Complete  $160 \mu\text{m}$  Flux-limited Sample of Infrared Galaxies in the ISO Lockman Hole  $1 \text{ deg}^2$  Deep Fields: Source Properties and Evidence for Strong Evolution in the FIR Luminosity Function for ULIRGs”, *A. J.*, **141**, 110-130.
111. Iwasawa, K., et al. 2011, “The location of an active nucleus and the soft X-ray shadowing by a tidal tail in the ULIRG Mrk 273”, *A&A*, **528**, 137-143.
112. McDonald, M., **Veilleux, S.**, & Mushotzky, R. 2011, “The Effect of Environment on the Formation of  $H\alpha$  Filaments and Cool Cores in Galaxy Groups and Clusters”, *Ap. J.*, **731**, 33-44
113. McDonald, M., **Veilleux, S.**, Rupke, D. S. N., Mushotzky, R., & Reynolds, C. 2011, “Star Formation Efficiency in the Cool Cores of Galaxy Clusters”, *Ap. J.*, **734**, 95-105.
114. Petric, A. O., et al. 2011, “Mid-Infrared Spectral Diagnostics of Luminous Infrared Galaxies”, *Ap. J.*, **730**, 28-38.
115. Iwasawa, K., et al. 2011, “C-GOALS: Chandra observations of a complete sample of luminous infrared galaxies from the IRAS Revised Bright Galaxy Survey”, *A&A*, **529**, 106-155.
116. Sturm, E., Gonzalez-Alfonso, E., **Veilleux, S.**, et al. 2011, “Massive Molecular Outflows and Negative Feedback in ULIRGs Observed by Herschel-PACS”, *Ap. J.*, **733**, L16-L20.

117. Koss, M., Mushotzky, R., Treister, E., **Veilleux, S.**, et al. 2011, “Chandra Discovery of a Binary Active Galactic Nucleus in Mrk 739”, *Ap. J.*, **735**, L42-L48
118. Koss, M., Mushotzky, R., **Veilleux, S.**, et al. 2011, “Host Galaxy Properties of the Swift Bat Ultra Hard X-Ray Selected Active Galactic Nucleus”, *Ap. J.*, **739**, 57-76
119. Mazzuca, L. M., Swaters, R. A., Knapen, J. H., & **Veilleux, S.** 2011, “Nuclear Rings in Galaxies: A Kinematic Perspective”, *Ap. J.*, **739**, 104-115.
120. Diaz-Santos, T., et al. 2011, “The Spatial Extent of (U)LIRGS in the Mid-infrared. II. Feature Emission”, *Ap. J.*, **741**, 32-42.
121. Zastrow, J., Oey, M. S., **Veilleux, S.**, McDonald, M., & Martin, C. L. 2011, “An Ionization Cone in the Dwarf Starburst Galaxy NGC 5253”, *Ap. J.*, **741**, L17-L21.
122. Winter, L., **Veilleux, S.**, McKernan, B., & Kallman, T. R. 2012, “The Swift Burst Alert Telescope Detected Seyfert 1 Galaxies: X-Ray Broadband Properties and Warm Absorbers”, *Ap. J.*, **745**, 107-133.
123. Krug, H. B., **Veilleux, S.**, et al. 2012, “Searching for  $z \sim 7.7$  Ly $\alpha$  Emitters in the COSMOS Field with NEWFIRM”, *Ap. J.*, **745**, 122-131.
124. McDonald, M., **Veilleux, S.**, & Rupke, D. S. N. 2012, “Optical Spectroscopy of H $\alpha$  Filaments in Cool Core Clusters: Kinematics, Reddening, and Sources of Ionization”, *Ap. J.*, **746**, 153-175.
125. Koss, M., Mushotzky, R., Treister, E., **Veilleux, S.**, et al. 2012, “Understanding Dual Active Galactic Nucleus Activation in the nearby Universe”, *Ap. J.*, **746**, L22-L27
126. Gonzalez-Alfonso, E., et al. 2012, “Herschel/PACS spectroscopy of NGC 4418 and Arp 220: H $_2$ O, H $_2^{18}$ O, OH,  $^{18}$ OH, O I, HCN and NH $_3$ ”, *A&A*, **541**, 4-33
127. **Veilleux, S.** 2012, “The Latest Results from QUEST, the Quasar and ULIRG Evolution Study”, *Journal of Physics*, **372**, 012001-8
128. Hailey-Dunsheath, S., et al. 2012, “Herschel-PACS Observations of Far-IR CO Line Emission in NGC 1068: Highly Excited Molecular Gas in the Circumnuclear Disk”, *Ap. J.*, **755**, 57-75
129. McDonald, M., Wei, L. H., & **Veilleux, S.** 2012, “Cold Molecular Gas along the Cooling X-Ray Filament in A1795”, *Ap. J. (Letters)*, **755**, L24-L29
130. McDonald, M., et al. 2012, “A massive, cooling-flow-induced starburst in the core of a luminous cluster of galaxies”, *Nature*, **488**, 349-352

131. Mazzarella, J. M., et al. 2012, “Investigation of Dual Active Nuclei, Outflows, Shock-heated Gas, and Young Star Clusters in Markarian 266”, *A. J.*, **144**, 125-167
132. Fogarty, L. M. R., et al. 2012, “First Science with SAMI: A Serendipitously Discovered Galactic Wind in ESO 185-G031”, *Ap. J.*, **761**, 169-180
133. Contursi, A., Poglitsch, A., Gracia Carpio, J., **Veilleux, S.**, et al. 2013, “Spectroscopic FIR mapping of the disk and galactic wind of M 82 with Herschel-PACS”, *A. & A.*, **549**, 118-143
134. Meijerink, R., et al. 2013, “Evidence for CO Shock Excitation in NGC 6240 from Herschel SPIRE Spectroscopy”, *Ap. J. (Letters)*, **762**, L16-L20
135. Gonzalez-Alfonso, E., et al. 2013, “Excited OH<sup>+</sup>, H<sub>2</sub>O<sup>+</sup>, and H<sub>3</sub>O<sup>+</sup> in NGC 4418 and Arp 220”, *A. & A.*, **550**, 25-47.
136. **Veilleux, S.**, et al. 2013, “The Surprising Absence of Absorption in the Far-ultraviolet Spectrum of Mrk 231”, *Ap. J.*, **764**, 15-24
137. Teng, S. H., **Veilleux, S.**, & Baker, A. J. 2013, “Green Bank Telescope Detection of Polarization-dependent HI Absorption and HI Outflows in Local ULIRGs and Quasars”, *Ap. J.*, **765**, 95-112.
138. Koss, M., Mushotzky, R., Baumgartner, W., **Veilleux, S.**, et al. 2013, “Studying Faint Ultra Hard X-ray Emission from AGN in GOALS LIRGs with Swift BAT”, *Ap. J. (Letters)*, **765**, L26-L31.
139. McDonald, M., Benson, B., **Veilleux, S.**, Bautz, M. W., & Reichardt, C. L. 2013, “An HST/WFC3-UVIS View of the Starburst in the Cool Core of the Phoenix Cluster”, *Ap. J. (Letters)*, **765**, L37-L42.
140. Rupke, D. S. N., & **Veilleux, S.** 2013, “The Multiphase Structure and Power Sources of Galactic Winds in Major Mergers”, *Ap. J.*, **768**, 75-121.
141. Stierwalt, S., et al. 2013, “Mid-infrared Properties of Nearby Luminous Infrared Galaxies. I. Spitzer Infrared Spectrograph Spectra for the GOALS Sample”, *Ap. J. (Suppl.)*, **206**, 1-11.
142. Kreimeyer, K., & **Veilleux, S.** 2013, “MMTF Discovery of Giant Ionization Cones in MR 2251178: Implications for Quasar Radiative Feedback”, *Ap. J. (Letters)*, **772**, L11-L16.
143. Bolatto, A. D., Warren, S. R., Leroy, A. K., Walter, F., **Veilleux, S.**, et al. 2013, “Suppression of star formation in the galaxy NGC 253 by a starburst-driven molecular wind”, *Nature*, **499**, 450-453.
144. McCormick, A., **Veilleux, S.**, & Rupke, D. S. N. 2013, “Dusty Winds: Extraplanar Polycyclic Aromatic Hydrocarbon Features of Nearby Galaxies”, *Ap. J.*, **774**, 126-142.

145. Diaz-Santos, T., et al. 2013, “Explaining the [C II]157.7  $\mu\text{m}$  Deficit in Luminous Infrared Galaxies First Results from a Herschel/PACS Study of the GOALS Sample”, *Ap. J.*, **774**, 126-142.
146. Rupke, D., & **Veilleux, S.** 2013, “Breaking the Obscuring Screen: A Resolved Molecular Outflow in a Buried QSO”, *Ap. J. (Letters)*, **775**, L15-L20.
147. **Veilleux, S.**, et al. 2013, “Fast Molecular Outflows in Luminous Galaxy Mergers: Evidence for Quasar Feedback from Herschel”, *Ap. J.*, **000**, 000-000 (accepted; arXiv:1308.3139)

### c. Monographs, Reports, and Extension Publications

1. Pogge, R. W., Goodrich, R., & **Veilleux, S.** 1988, “The *VISTA* Cookbook”, *Lick Observatory Technical Report No. 50*, 1–50. (technical report)
2. **Veilleux, S.**, Tully, R. B., & Cecil, G. 1994, “Galaxy-Scale Windblown Superbubbles”, *CFHT Bulletin #30*, 1–5. (scientific report)
3. Kennicutt, R., Soifer, B. T., Elias, J. H., Puxley, P., Shields, J. C., **Veilleux, S.**, & Zaritsky, D. 1998, “Science with Gemini” workshop, 1–15. (scientific report)
4. Miller, S. T., & **Veilleux, S.** 1999, “A Deep Multi-Line Imaging Survey of Edge-On Spiral Galaxies”, *AAO Newsletter No. 88*, 4–5. (scientific report)
5. Shopbell, P. L., & **Veilleux, S.** 1999, “Deep Observations of a QSO Nebula with the TTF”, *AAO Newsletter No. 88*, 6–7. (scientific report)
6. **Veilleux, S.** & Rupke, D. S. 2002, “Discovery of a Shock-Excited Wind in the Starburst Galaxy NGC 1482”, *AAO Newsletter #99* (Feb. 2002), 6–7 (scientific report)
7. **Veilleux, S.** & Miller, S. T. 2003, “Extraplanar Emission-Line Gas in Edge-On Spiral Galaxies” *AAO Newsletter #102* (March 2003), 8–9 (scientific report)
8. Rupke, D. S., & **Veilleux, S.** 2003, “TTF Observations of Very Extended Ionized Gas in Nearby Galaxies”, *AAO Newsletter #103*, 3–4 (scientific report)
9. Rupke, D. S., & **Veilleux, S.** 2004, “A Spectroscopic Survey for Superwinds in Massive Starbursts”, *NOAO Newsletter* (June 2004) #78, 2–3 (scientific report)
10. **Veilleux, S.** & Jannuzi, B. 2009, “The Maryland-NOAO Instrument Partnership (2003-2009)”, *NOAO Newsletter*, #98, 32–33 (technical report)

### d. Book Reviews, Other Articles, and Notes

*i. Book Reviews*

*ii. Other Articles in Popular Publications*

1. **Veilleux, S.**, Cecil, G., & Bland-Hawthorn, J. 1996, “Colossal Galactic Explosions”, *Scientific American*, **274**, 98–103.
2. **Veilleux, S.**, Cecil, G., & Bland-Hawthorn, J. 1998, “Colossal Galactic Explosions”, *Scientific American Presents*, **9**, 74–79.
3. **Veilleux, S.** 1999, “Turbulence in a Nearby Twin”, *Sky and Telescope*, **Vol. 98, No. 3**, 56–56.
4. **Veilleux, S.**, Cecil, G., & Bland-Hawthorn, J. 2007, “Colossal Galactic Explosions”, *Scientific American* (Special Issue on Black Holes), (March 2007).

*iii. Notes*

**e. Talks, Abstracts, and Other Professional Papers Presented**

*i. Invited papers (published)*

1. **Veilleux, S.**, & Cecil, G. 1995, “HIFI Survey of Emission-Line Galaxies: Recent Results on the Nuclear Superbubble of NGC 3079”, *IAU Colloquium 149: Tridimensional Optical Spectroscopic Methods in Astrophysics*, ed. G. Comte and M. Marcelin, 113–118. (invited paper)
2. **Veilleux, S.** 1997, “A Near-Infrared Search for Hidden Broad-Line Regions in Ultraluminous Infrared Galaxies”, in *Extragalactic Astronomy in the Infrared, XVIIth Moriond Astrophysics Meeting*, eds. G. Mamon, T. X. Thuan, and J. T. Thanh, 311–320. (invited review paper)
3. **Veilleux, S.** 1997, “Spectroscopy of Luminous Infrared Galaxies”, in proceedings to IAU Symposium #186, *Galaxy Interactions at Low and High Redshift*, eds. D. B. Sanders and J. Barnes, 295–302. (invited paper)
4. **Veilleux, S.** 1999, “Highlights: Optical/NIR Spectroscopy of Ultraluminous Infrared Galaxies”, review presented at the Ringberg Meeting on Ultraluminous Infrared Galaxies: Monsters or Babies?, *Ap&SS*, 67–72. (invited review paper)
5. **Veilleux, S.** 2000, “Fabry-Perot Imaging Spectroscopy of Starburst and AGN Winds”, review presented at the Walnut Creek meeting on Imaging the Universe

- in Three Dimensions, eds. W. van Breugel and J. Bland-Hawthorn, 277–286. (invited review paper)
6. **Veilleux, S.** 2000, The Starburst-AGN Connection, proceedings of the Ringberg Meeting on Starburst Galaxies: Near and Far held in September 2000, eds. L. Tacconi and D. Lutz, 88–94 (invited discussion paper)
  7. **Veilleux, S.** 2000, Fabry-Perot Imaging Spectroscopy of Starburst and AGN Winds, in Imaging the Universe in Three Dimensions, eds. W. van Breugel and J. Bland-Hawthorn, 277–286 (invited review paper)
  8. **Veilleux, S.** 2001, “Spectroscopic Diagnostics for AGNs”, proceedings of IAU Colloquium #184 “AGN Surveys” held at the Byurakan Observatory, Armenia in June 2001, 111–126 (invited review paper)
  9. **Veilleux, S.** 2002, “Warm Ionized Gas on the Outskirts of Active and Normal Galaxies”, proceedings of workshop on Extragalactic Gas at Low Redshift, eds. J. S. Mulchaey and J. T. Stocke, ASP Conf. Ser. Vol. 254, 313–322 (invited paper)
  10. **Veilleux, S., Cecil, G., Bland-Hawthorn, J., & Shopbell, P. L.** 2002, “New Results from a Survey of Galactic Outflows in Nearby Active Galactic Nuclei”, RMxAC, 13, 222–229 (invited paper)
  11. **Veilleux, S.** 2002, “Fabry-Perot Survey of Emission-Line Galaxies”, proceedings of Galaxies: The Third Dimension, eds. M. Rosada, L. Binette, & L. Arias, ASP Conf. Series, 282, 293–304 (invited review paper)
  14. **Veilleux, S.** 2003, “The AGN Paradigm: The Radio-Quiet Objects”, in Active Galactic Nuclei: from Central Engine to Host Galaxy, meeting held in Meudon, France, July 23-27, 2002, Eds.: S. Collin, F. Combes and I. Shlosman. ASP Conference Series, 11–22 (invited keynote review paper)
  15. **Veilleux, S.** 2003, “Galactic Winds: Near and Far”, presented at “Neutral ISM in Starburst Galaxies”, a conference held in Marstrand, Sweden, eds. S. Aalto, S. Hüttemeister, and A. Pedlar, ASP Conf. Series, 320, 277–285 (invited review paper; astro-ph/0309119)
  16. **Veilleux, S.** 2003, “Multiwavelength Observations of Galactic Winds: Near and Far”, presented at IAU Symposium #217, Recycling Intergalactic and Interstellar Matter, eds. P.-A. Duc, J. Braine, and E. Brinks, IAU Symposium Series, Vol. 217, 276–286 (invited review paper)
  17. **Veilleux, S. & Rupke, D. S.** 2003, “Galactic Winds and the Missing Baryons”, Pub. A. S. A., 21, 394-399 (invited paper presented at the Tullyfest in honor of R. B. Tully 60th Anniversary)



18. **Veilleux, S.** 2003, “Unification of Radio-Quiet AGNs: Successes and Failures”, presented at the 2003 Guillermo Haro Conference on Multiwavelength AGN Surveys, Eds. R. Maiolino and R. G. Mujica, 204–212. (invited review paper)
19. **Veilleux, S.** 2005, “Extragalactic Science with Tunable Filters”, presented at II International Workshop on Science with the GTC: Science with GTC 1st-light Instruments and the LMT, Ed. J. J. Gonzalez, RMxAC, 24, 70–77 (invited review paper)
20. **Veilleux, S. & Rupke, D. S.** 2005, “Galactic Winds in Starburst and Active Galaxies”, presented at the 2004 Dwingeloo meeting on Extra-planar Gas, ed. R. Braun, ASP, 331, 313–321. (invited review paper)
21. **Veilleux, S.** 2006, “The Hosts and Environments of Local Ultraluminous Infrared Galaxies and Quasars”, *New Astronomy Reviews*, Vol. 50, 701-707, presented at the August 2005 International workshop on QSO Hosts and Environments at the Lorentz Center in Leiden, Netherlands (invited review paper)
22. **Veilleux, S.** 2006, “Local Ultraluminous Infrared Galaxies and QSOs”, presented at the August 2005 International conference on Extreme Starburst: Near and Far in Lijiang, China. (invited review paper).
23. **Veilleux, S.** 2008, “AGN Host Galaxies”, presented at the August 2007 VLTI Summer School on “Active Galactic Nuclei at the highest resolution: Theory and Observation” in Torun, Poland, *New Astronomy Reviews*, **52**, 289-306 (invited lectures)
24. **Veilleux, S.** 2008, “Obituary: Donald Edward Osterbrock, 1924-2007”, *Bull. A. A. S.*, **39**, 1075. (invited obituary)
25. **Veilleux, S.** 2009, “Obituary: Andrew Stephen Wilson, 1947-2008”, *Bull. A. A. S.*, **41**, 582. (invited obituary)
26. **Veilleux, S.** 2012, “The Latest Results from QUEST, the Quasar and ULIRG Evolution Study”, at the Astronomy at High Angular Resolution’ (AHAR11) conference on “The Central kiloparsec in galactic nuclei” in Bad Honnef, Germany, *Journal of Physics*, vol. 372, 012001-8 (invited review paper)
27. **Veilleux, S.** 2012, “Massive Neutral and Molecular Winds in Nearby Galaxies”, at the international conference “AGN Winds in Charleston”, Charleston, South Carolina, ASP, Vol. 460, pp. 139-143 (invited paper)
28. **Veilleux, S.** 2013, “AGN Feedback: Near and Far”, at the conference “Multiwavelength AGN Surveys and Studies”, Yerevan, Armenia, in press. (invited review paper)

*ii. Invited talks (unpublished)*

1. **Veilleux, S.** 2004, “Unification of Radio-Quiet AGN: An Update”, presented at the conference on Astrophysics of Gaseous Nebulae and Active Galactic Nuclei in honor of D. E. Osterbrock’s 80th anniversary. (invited review talk [no proceedings])
2. **Veilleux, S.** 2004, “AGN-Star Formation Connection in Local Powerful Starbursts”, presented at the Ringberg meeting on The Role of Mergers and Feedback in Galaxy Evolution. (invited review talk [no proceedings])
3. **Veilleux, S.** 2006, “ULIRG Evolution”, presented at the Dust and Gas in ULIRGs: Tracing Star Formation and Black Hole Growth at the Centers of Ultraluminous Infrared Galaxies” workshop held at Cornell University in June 2006. (invited review talk [no proceedings])
4. **Veilleux, S.** 2006, “ULIRGs in the Cosmological Context”, presented at the IAU meeting Joint Discussion # 15 on “New Cosmology Results From The Spitzer Space Telescope.” (invited review talk [no proceedings])
5. **Veilleux, S.** 2007, “QUEST: Quasar - ULIRG Evolution Study”, presented at the August 2007 International conference on the Legacy of Multi-Wavelength Surveys”, in Xining, China (invited review paper [no proceedings])
6. **Veilleux, S.** 2007, “Spectral Classification of Emission-Line Galaxies”, presented at Prof. D. E. Osterbrock Memorial Symposium, August 2007. (invited review talk [no proceedings])
7. **Veilleux, S.** 2007, “Galactic Winds”, presented at Prof. W. G. Matthews & P. Bodenheimer Retirement Symposium, August 2007. (invited review talk [no proceedings])
8. **Veilleux, S.** 2007, “Science with the Maryland-Magellan Tunable Filter”, presented at the Second Magellan Science Symposium held at CfA, 29-30 October 2007 (invited talk [no proceedings])
10. **Veilleux, S.** 2008, “The Maryland-Magellan Tunable Filter”, presented at the January 2008 workshop on “Fabry-Perot Spectroscopy in Astronomy”, held on Tenerife, Canary Islands (invited talk [no proceedings])
11. **Veilleux, S.** 2008, “Massive Gas Flows in and out of Powerful Starburst Galaxies”, 37th COSPAR Scientific Assembly, Held 13-20 July 2008, in Montreal, Canada, Symposium E, Session 14, paper E14-0009-08 (invited talk [no proceedings])
12. Gonzalez Delgado, R. M., et al. 2010, “Extreme Starbursts in the Local Universe”, Starburst2010 conference held in June 2010 in Granada, Spain, arXiv:1008.2107 (invited summary talk given by **Veilleux** [no proceedings])
13. **Veilleux, S.** 2011, “Starburst-Driven Feedback: Observational Perspective”, Ringberg meeting on “Star Formation in the Herschel Era”, Tegernsee, Germany (invited talk [no proceedings])

14. **Veilleux, S.** 2012, “Observational Review of the Outflow Phenomena from Extragalactic Systems” NRAO-NAASC 2012 Workshop on “Outflows, Winds, and Jets” (Charlottesville, Virginia (invited talk [no proceedings]))
15. **Veilleux, S.** 2012, “Powerful Molecular Winds in Nearby Galaxies” STScI workshop on “Gas Flows in Galaxies”, Baltimore, Maryland (invited talk [no proceedings])
16. **Veilleux, S.** 2012, “Galactic Winds: What, Who, and How?”, workshop on “The Physics and Evolution of Active Black Holes”, Technion, Haifa, Israel (invited talk [no proceedings])
17. **Veilleux, S.** 2012, “Galaxy Interactions: Do they play a role in triggering Local AGN?”, workshop on “The Physics and Evolution of Active Black Holes”, Technion, Haifa, Israel (invited talk [no proceedings])
18. **Veilleux, S.** 2012, “Galactic Winds and Outflows”, Conference on “Frontiers in Star Formation” in honor of Prof. Richard Larson, Yale University, New Haven, Connecticut (invited talk [no proceedings])
19. **Veilleux, S.** 2013, “ULIRG-QSO Connection”, at the conference “FIRSED2013 - the FIR-submm SEDs of galaxies with and without active nucleus”, Amsterdam, The Netherlands (invited talk [no proceedings])
20. **Veilleux, S.** 2013, “New Herschel Results on Molecular Winds and Multiwavelength Comparisons”, at the Ringberg meeting “Galactic Winds: Near and Far”, Ringberg Castle, Germany (invited talk [no proceedings])
21. **Veilleux, S.** 2013, “Powerful Molecular Outflows in Nearby Active Galaxies”, at the conference “Galaxies vs SMBH”, Castellammare del Golfo, Sicily, Italy (invited talk [no proceedings])

*iii. Refereed Conference Proceedings*

Astronomy conference proceedings are very rarely refereed by external referees, except for proceedings published in Journals: papers # 4, 10, 13, 17, 19, 24, and 26 above.

*iii. Unrefereed Conference Proceedings*

All of the invited papers listed in *i.* (except those mentioned in *ii.*) were published as unrefereed conference proceedings. Here is a list of additional unrefereed conference papers, not listed before. Most of these papers are based on contributed talks:

1. **Veilleux, S.,** and Osterbrock, D. E. 1986, “Spectral Classification of Emission-line Galaxies”, *Star Formation in Galaxies*, NASA Conference Publication 2466, ed. C. J. Lonsdale Persson, 737–740.

2. **Veilleux, S.** 1988, “High Resolution Study of NGC 4151”, *Active Galactic Nuclei: Proceedings of the Georgia State University Conference*, eds. H. R. Miller and P. J. Wiita (Berlin: Springer-Verlag), 55–58.
3. **Veilleux, S.** 1989, “Substructures in the Narrow-line Region of AGNs”, *IAU Symposium 134, Active Galactic Nuclei*, eds. D. E. Osterbrock and J. S. Miller (Berlin: Springer-Verlag), 312–313.
4. Osterbrock, D. E., Shaw, R. A., and **Veilleux, S.** 1989, “Near-Infrared Emission-line Spectra of the Orion Nebula, NGC 4151, and Other Seyfert Galaxies”, *IAU Symposium 134, Active Galactic Nuclei*, eds. D. E. Osterbrock and J. S. Miller (Berlin: Springer-Verlag), 298–300.
5. Mathews, W. G., and **Veilleux, S.** 1989, “Stability of Emission-line clouds in Seyfert Galaxies”, with W. G. Mathews, *IAU Symposium 134, Active Galactic Nuclei*, eds. D. E. Osterbrock and J. S. Miller (Berlin: Springer-Verlag), 303–304.
6. **Veilleux, S.**, and Zheng, W. 1992, “Double-Peaked Broad-Line Profiles: Evidence for Accretion Disks with Hot Spots?”, *Physics of Active Galactic Nuclei: Proceedings of the Heidelberg Conference*, eds. W. J. Duschl and S. J. Wagner, (Berlin: Springer-Verlag), 252–253.
7. **Veilleux, S.**, and Zheng, W. 1992, “On the Origin of Double-Peaked Broad-Line Profiles: Accretion Disk with Hot Spots or Biconical BLR?”, *Testing the AGN Paradigm: Proceedings of the 2nd Annual October Astrophysics Conference in Maryland*, eds. S. S. Holt, S. G. Neff, and C. M. Urry, 224–227.
8. **Veilleux, S.**, Bland-Hawthorn, J., Cecil, G., & Tully, R. B. 1992, “The Vertical Disk Structure of the Edge-On Galaxy NGC 3079”, *The Third Grand Teton Summer School: The Evolution of Galaxies and Their Environment*, 330–331
9. **Veilleux, S.**, Cecil, G., Bland-Hawthorn, J., Tully, R. B. & Filippenko, A. V. 1993, “HIFI Results on the Superbubble of NGC 3079”, *Mass-Transfer Induced Activity in Galaxies*, ed. I. Shlosman, (Cambridge: Cambridge University Press), 213–217.
10. **Veilleux, S.**, Goodrich, R. W., & Hill, G. J. 1993, “Infrared Spectroscopy of Seyfert 2s: A Look through the Obscuring Torus?”, *The First Stromlo Symposium: The Physics of Active Galaxies*, ed. G. V. Bicknell, M. A. Dopita, and P. J. Quinn, 273–274.
11. Gao, Y., Gruendl, R., Lo, K. Y., Hwang, C., & **Veilleux, S.** 1997, “Pre-Starbursts in Luminous Infrared Galaxies?”, *Star Formation, Near and Far, Proceedings to Astrophysics Conference on Star Formations*, eds. Stephen S. Holt and L. G. Mundy (New York: AIP), 319–320.

12. **Veilleux, S.**, Bland-Hawthorn, J., Cecil, G., & Shopbell, P. 1998, “Galactic Winds in Active Galaxies”, in proceedings to IAU Symposium #184, The Central Regions of the Galaxy and Galaxies, eds. Y. Sofue, 417–418.
13. Shopbell, P. L., **Veilleux, S.**, and Bland-Hawthorn, J. 1999, “A Very Extended Ionized Nebula around the Quasar MR2251-178”, proceedings from the Walnut Creek meeting on Imaging the Universe in Three Dimensions, eds. W. van Breugel and J. Bland-Hawthorn, 404–407.
14. Sanders, D. B., **Veilleux, S.**, Yun, M., Cowie, L. L., Kawara, K., Taniguchi, Y., Oyabu, S., Murayama, T., & Okuda, H. 2000 “Identification of ISOPHOT Deep Field Sources”, “The Starburst-AGN Connection”, proceedings of the Ringberg Meeting on Starburst Galaxies: Near and Far held in September 2000, 297–302.
15. **Veilleux, S.**, Cecil, G., & Bland-Hawthorn, J. 2000, Recent Results from a Superwind Survey, in Gas and Galaxy Evolution, ASP Conf. Ser. Vol. 240, eds J. Hibbard, M. Rupen, and J. van Gorkom, 388–389
16. **Veilleux, S.**, Sanders, D. B., & Kim, D.-C. 2001, “The QSO - Ultraluminous Infrared Galaxies Connection”, proceedings of the international workshop on “QSO Hosts and their Environments” held in Granada, Spain, 165–170
17. Rupke, D. S., **Veilleux, S.**, & Sanders, D. B. 2001, “Keck Optical Spectroscopy of Galactic Winds in Ultraluminous Infrared Galaxies”, Bull. A.A.S., 199, 3504–3504
18. Vogel, S. N., Weymann, R. J., **Veilleux, S.**, & Epps, H. W. 2002, “A New Observational Upper Limit to the Low Redshift Ionizing Background Radiation, proceedings of workshop on Extragalactic Gas at Low Redshift”, eds. J. S. Mulchaey and J. T. Stocke, ASP Conf. Ser. Vol. 254, 363–374 (invited paper)
19. Cecil, G., Ferruit, P., & **Veilleux, S.** 2002, “Bubbles, Bow-Shocks, and Bullets over Broad-lines: Three Ionized Outflows Resolved with HST”, RMxAC, 13, 170–176 (invited paper)
20. Rupke, D. S., **Veilleux, S.**, & Sanders, D. B. 2003, “Superwinds in Luminous Infrared Galaxies at  $0 < z < 0.5$ ”, Bull. A.A.S., 20310502
21. **Veilleux, S.**, & Rupke, D. S. 2003, “A New Method to Identify Galaxies Hosting Starburst-Driven Winds”, Bull. A.A.S., 199, 3501–3501
22. **Veilleux, S.** 2005, “The Evolution of Activity in Massive Gas-Rich Mergers”, in Spitzer Space Telescope: New Views of the Cosmos, ed. L. Armus.
23. Rupke, D. S., & **Veilleux, S.** 2005, “Galactic Winds in Local Star-Forming and Active Galaxies”, in Galactic Flows: The Galaxy/IGM Ecosystem”, eds. D. Calzetti and T. M. Heckman.

24. Schweitzer, M., et al. 2005, "Silicate emission in active galaxies - From LINERs to QSOs", *Astron. Nachr.*, **326**, 556
25. Mazzuca, L. M., Knapen, J. H., Regan, M. W., & **Veilleux, S.** 2005, "The Distribution of Star Formation in the Central Regions of Spiral Galaxies", The 331st Wilhelm and Else Heraeus Seminar. AIP Conference Proceedings, **783**, 182-188 (contributed talk)
26. Dasyra, K., et al. 2006, "Probing for evolutionary links between local ULIRGs and QSOs using NIR spectroscopy", *New Astronomy Reviews*, Vol. 50, 720-724, presented at the August 2005 International workshop on QSO Hosts and Environments at the Lorentz Center in Leiden, Netherlands (invited talk)
27. Bland-Hawthorn, J., **Veilleux, S.**, & Cecil, G. 2007, "Galactic Winds: a short review", *Ap & SS*, **311**, 87-98. (invited talk)
28. Dasyra, K. M., et al. 2007, "Trigger Mechanisms and Time Evolution of Local QSOs and ULIRGs: The Dynamical Point of View", *Bull. A. A. S.*, bf 210, 3202-3202. (contributed talk)
29. Schweitzer, M., et al. 2007, "Uncovering the Active Galactic Nuclei in Low-Ionization Nuclear Emission-Line Regions with Spitzer", *ASP Vol. 373, The Central Engine of Active Galactic Nuclei*, Ed. L. C. Ho and J.-M. Wang, 501-504 (contributed talk)
30. Rupke, D. S. N., **Veilleux, S.**, Kim, Dong-Chan, Sturm, E., Contursi, A., Lutz, D., Netzer, H., Sternberg, A., & Maoz, D. 2007, "Uncovering the Active Galactic Nuclei in Low-Ionization Nuclear Emission-Line Regions with Spitzer", *ASP Vol. 373, The Central Engine of Active Galactic Nuclei*, Ed. L. C. Ho and J.-M. Wang, 525-528 (contributed talk)
31. Lawton, B. L., et al. 2007, "Observational Constraints on Reddening and Diffuse Interstellar Bands in Early Epoch Galaxies", *Bull. A. A. S.*, **211**, 153.06. (contributed talk)
32. **Veilleux, S.** 2008, "Galactic Winds", presented at the June 2006 conference on Mapping the Galaxy and Nearby Galaxies in honor of Prof. Sofue, Ishigaki Island, Okinawa, Japan, in *Astrophysics and Space Sciences Proceedings*, p. 245. (contributed talk)
33. **Veilleux, S.** 2008, "QUEST: Quasar / ULIRG Evolution Study with Spitzer/IRS", presented at the November 2005 conference on Infrared Diagnostics of Galaxy Evolution, Pasadena, California, *ASP Conf. Series*, 381, 24 (contributed talk)
34. Mazzuca, L., Swaters, R., **Veilleux, S.**, & Knapen, J. 2008, "A Consistent Picture of Gas Kinematics within Nuclear Rings", presented at the April 2007 conference

- “Pathways through an Eclectic Universe” held in honor of Dr. John E. Beckman, Tenerife, Canary Islands, ASP Conf. Series, 390, 139 (contributed talk)
35. Mazzuca, L. M., Swaters, R. A., & **Veilleux, S.** 2009, “The Kinematic Environment of Nuclear Rings”, *Bull. A. A. S.*, **41**, 693-693 (contributed talk)
  36. Teng, S. H., **Veilleux, S.**, et al. 2009, “Suzaku Observations of Local Ultraluminous Infrared Galaxies”, *Bull. A. A. S.*, **41**, 392-392. (contributed talk)
  37. Koss, M., Mushotzky, R., & **Veilleux, S.** 2009, “Host Galaxy Morphologies of Hard X-ray Selected AGN from the Swift BAT Survey”, *Bull. A. A. S.*, **41**, 240-240. (contributed talk)
  38. Teng, S. H., & **Veilleux, S.** 2010, “From Merging Galaxies to Quasars: the Evolution of Nuclear Activity in Luminous and Ultraluminous Infrared Galaxies”, *Bull. A. A. S.*, **41**, 447-447. (contributed talk)
  39. Koss, M., Mushotzky, R., **Veilleux, S.**, & Winter, L. 2010, “Host Galaxy Properties of SWIFT Hard X-ray Selected AGN”, *Bull. A. A. S.*, **41**, 536-536. (contributed talk)
  40. **Veilleux, S.**, Rupke, D. S. N., & Swaters, R. 2010, “Warm Molecular Hydrogen in the Galactic Wind of M82”, *Bull. A. A. S.*, **41**, 307-307. (contributed talk)
  41. McDonald, M., & **Veilleux, S.** 2010, *Bull. A. A. S.*, “A Multi-wavelength Survey Of Cooling-flow Clusters With The Maryland-Magellan Tunable Filter”, **41**, 552-552. (contributed talk)
  42. Winter, L. et al. 2010, “The Optical and X-Ray Spectral Properties of the Swift BAT-detected AGNs”, *Bull. A. A. S.*, **41**, 241-241. (contributed talk)
  43. Krug, H., Rupke, D. S. N., & **Veilleux, S.** 2010, “Neutral Gas Outflows and Inflows in Infrared-Faint Seyfert Galaxies”, *Bull. A. A. S.*, **41**, 244-244. (contributed talk)
  44. Koss, M., Mushotzky, R., **Veilleux, S.**, & Winter, L. 2010, “Host Galaxy Properties Of The Swift Bat Hard X-ray Survey Of AGN”, HEAD meeting #11, 41, 664-664.
  45. Teng, S. H., & **Veilleux, S.** 2010, “Quasar/ulirg Evolution Study (quest): The X-ray Perspective”, HEAD meeting #11, 41, 662-662.
  46. Winter, L. M., et al. 2010, “Optical and X-ray Properties of the Swift BAT-detected AGN”, AIP Conference Proceedings of “X-ray Astronomy 2009; Present Status, Multi-wavelength Approach and Future Perspectives”, 1248, 369-372.
  47. Koss, M., Mushotzky, R., **Veilleux, S.**, & Winter, L. 2010, “Optical and X-ray Properties of the Swift BAT-detected AGN”, AIP Conference Proceedings of “X-ray Astronomy 2009; Present Status, Multi-wavelength Approach and Future Perspectives”, 1248, 453-454

48. McDonald, M., **Veilleux, S.**, & Mushotzky, R. 2011, “On the Origins of H $\alpha$  Emission in the Cool Cores of Galaxy Groups and Clusters”, Bull. A. A. S., **43**.
49. Fischer, J., et al. 2011, “Herschel PACS Observations Of Massive Molecular Outflows In ULIRGs And What May Drive Them”, Bull. A. A. S., **43**.
50. Tilvi, V., et al. 2011, “The Luminosity Function of Lyman-alpha Emitters at the Reionization Epoch: Observations & Theory”, Bull. A. A. S., **43**.
51. Koss, M., et al. 2011, “AGN Triggering: New Results From The Swift Sample Of Hard X-ray Selected AGN”, Bull. A. A. S., **43**.
52. Andersen, J. M., West, A. A., Covey, K. R., McDonald, M., Veilleux, S., & Seth, A. 2011, “Activity in M Dwarf Members of NGC 2516 and M67: Calibrating an Age-Activity Relation”, Bull. A. A. S., **43**.
53. Andersen, J. M., West, A. A., Covey, K. R., McDonald, M., Veilleux, S., & Seth, A. 2011, “Deriving Age-Activity Relations in M Dwarf Stars Using Clusters of Known Ages”, ASP, Vol. 448, p. 1055-1060
54. McDonald, M., **Veilleux, S.**, Mushotzky, R., & Rupke, D. 2011, “The Origins of Optical Filaments in Cool Core Galaxy Clusters”, HEAD meeting #12, 46.02.
55. Krug, H. B., **Veilleux, S.**, et al. 2012, “Searching for High-redshift Ly $\alpha$  Emitters in the COSMOS Field with NEWFIRM”, Bull. A. A. S., **44**.
56. Olmstead, A., Rigby, J., & **Veilleux, S.** 2012, “A Magnified View Of Star Formation At z=0.9 From Two Lensed Galaxies”, Bull. A. A. S., **44**.
57. Tilvi, V., et al. 2012, “Lyman-alpha Luminosity Function near the Epoch of Reionization”, Bull. A. A. S., **44**.
58. Capone, J., Content, D., Kutyrev, A., **Veilleux, S.**, Moseley, S., & Gehrels, N. 2012, “RIMAS - Optical Design Development of the Imager/Spectrometer for the Discovery Channel Telescope”, Bull. A. A. S., **44**.
59. Teng, S. H., Veilleux, S., & Baker, A. J. 2012, “HI Absorption in Merger Remnants”, Bull. A. A. S., **44**.
60. Walter, F., et al. 2013, “ALMA Observations of NGC 253 Reveal a Molecular Outflow and Resolve the GMCs that Fuel the Nuclear Starburst Activity”, Bull. A. A. S., **45**
61. Walton, D., et al. 2013, “The NuSTAR Obscured AGN Observing Program”, Bull. A. A. S., **45**
62. Teng, S. H., et al. 2013, “The NuSTAR View of the ULIRG Mrk 231”, Bull. A. A. S., **45**



63. Zastrow, J. A., Oey, M. S., Pellegrini, E. W., Veilleux, S., McDonald, M., & Martin, C. L. 2013, “Understanding the SEDS of Massive Stars and Radiative Feedback from Starburst Galaxies”, *Bull. A. A. S.*, **45**
64. Teng, S. H., & **Veilleux, S.** 2013, “A Half-Megasecond X-ray Study of the ULIRG Mrk 231”, HEAD meeting #13, 108.05
65. Koss, M., Mushotzky, R., Baumgartner, W. H., **Veilleux, S.**, et al. 2013, “New Techniques to Study Faint Ultra Hard X-ray Emission from SWIFT BAT Applied to the GOALS LIRG Sample”, HEAD meeting #13, 109.07.

#### **f. Film Tapes, Photographs, etc**

#### **g. Exhibits, Performances, Demonstrations, and other Creative Activities**

List of invited colloquia since 1995:

- July 2013: MPE, Garching, Germany (tea talk on Cool Cores and Cooling Flows)
- July 2013: Sydney Institute for Astronomy, University of Sydney, Sydney, Australia (colloquium: Cool Cores and Cooling Flows)
- May 2013: Institute for Astronomy, Honolulu, Hawaii (colloquium on galactic winds)
- November 2012: MPE, Garching, Germany (tea talk)
- June 2012: NASA Goddard Space Flight Center, Greenbelt, Maryland (colloquium)
- April 2012: Nijmegen, Leiden, and Groningen, The Netherlands (NOVA Lecture Series)
- February 2012: Queen University, Kingston, Ontario, Canada (colloquium)
- November 2011: University of Pennsylvania, Philadelphia, Pennsylvania (colloquium)
- February 2011: Boston University, Boston, Massachusetts (colloquium)
- April 2010: George Mason University, Fairfax, Virginia (colloquium)
- March 2010: Catholic University of America, Washington, DC (colloquium)
- March 2010: Oxford University, Oxford, England (BIPAC seminar)
- February 2010: University of Florida, Gainesville, Florida (colloquium)
- September 2009: University of Sydney, Sydney, Australia (colloquium)
- June 2009: INAF, Istituto di Radioastronomia, Bologna, Italy (colloquium)

- June 2009: MPIfR, Bonn, Germany (colloquium)
- June 2009: Astrophysical Institute, Potsdam, Germany (colloquium)
- June 2009: Ruhr-Universität, Bochum, Germany (colloquium)
- May 2009: MPA, Heidelberg, Germany (colloquium)
- May 2009: MPE, Garching, Germany (tea talk)
- March 2009: MPE/MPA/ESO, Garching, Germany (Munich Joint Astronomy colloquium)
- November 2008: Virginia Tech, Blacksburg, Virginia (colloquium)
- January 2008: University of California, Riverside, California (colloquium)
- March 2007: New Mexico State University, Las Cruces, New Mexico (colloquium)
- September 2006: University of Virginia, Charlottesville, Virginia (colloquium)
- September 2005: Los Alamos National Laboratory, New Mexico (colloquium)
- July 2005: Astronomy Observatory Public Open House, College Park (popular seminar)
- February 2004: Naval Research Laboratory, D.C. (E.O. Hulbert Colloquium Series)
- November 2003: Observatories of the Carnegie Institution, Pasadena, CA (colloquium)
- November 2003: IPAC, Caltech, Pasadena, CA (lunch seminar)
- October 2003: Livermore National Laboratory, CA (colloquium)
- May 2003: University of California, Los Angeles, CA (colloquium)
- May 2003: University of California, Santa Barbara, CA (colloquium)
- April 2003: Observatories of the Carnegie Institution, Pasadena, CA (colloquium)
- April 2003: California Institute of Technology, Pasadena, CA (colloquium)
- April 2003: Ohio State University, Columbus, OH (colloquium)
- April 2003: University of Rochester, Rochester, NY (colloquium)
- November 2002: State University of New York, Stony Brook, NY (colloquium)
- May 2002: Astronomy Observatory Public Open House, College Park (popular seminar)
- November 2001: University of Maryland, College Park, Maryland (colloquium)
- October 2001: Kitt Peak National Observatory, Tucson, Arizona (lunch-time seminar)

- October 2001: University of Arizona, Tucson, Arizona (joint U. of Arizona/NOAO colloquium)
- May 2001: NASA Goddard Space Flight Center, Laboratory for Astronomy and Solar Physics (colloquium)
- May 2001: Astronomy Observatory Public Open House, College Park (popular seminar)
- May 2001: University of Maryland, College Park, MD (lunch-time seminar, NGC 3079: The Mother of All Galaxy-Scale Windblown Superbubbles - Giant “Mushroom Cloud” in Action!)
- February 2001: University of Texas, Austin, Texas (lunch-time seminar)
- February 2001: University of Texas, Austin, Texas (colloquium)
- June 2000: Astronomy Observatory Public Open House, College Park (popular seminar)
- March 2000: UC Santa Cruz, Santa Cruz, California (colloquium)
- March 2000: University of Virginia, Charlottesville, Virginia (colloquium)
- January 2000: Anglo-Australian Observatory, Australia (colloquium)
- October 1999: MIT (colloquium)
- June 1999: Astronomy Observatory Public Open House, College Park (popular seminar)
- January 1999: Hertzberg Institute of Astrophysics, Canada (colloquium)
- January 1999: University of British Columbia, Canada (colloquium)
- June 1998: Astronomy Observatory Public Open House, College Park (popular seminar)
- June 1997: UC Santa Cruz, Santa Cruz, California (colloquium)
- June 1997: Astronomy Observatory Public Open House, College Park (popular seminar)
- April 1997: Space Telescope Science Institute, Baltimore, Maryland (colloquium)
- February 1997: Goddard Space Flight Center, High-Energy Astrophysics Division, Greenbelt, Maryland (colloquium)
- November 1996: University of Montreal, Montreal, Canada (colloquium)
- November 1996: University of Illinois, Urbana-Champaign, Illinois (colloquium)
- November 1996: University of Virginia, Charlottesville, Virginia (colloquium)
- May 1996: University of Maryland, College Park (seminar)
- March 1996: Astronomy Observatory Public Open House, College Park (popular seminar)

- February 1995: New Mexico State University, Las Cruces, New Mexico (colloquium)
- January 1995: Universite Laval, Quebec, Canada (colloquium)
- January 1995: University of Toronto, Toronto, Canada (colloquium)

## **h. Original Designs, Plans, Inventions, and Patents**

### **i. Contracts and Grants**

*Total to Veilleux:* \$6,570,804 (since July 1995), \$5,738,912 (since January 2003) (See list of grants on next pages; listed in this table are only the portions of the grants that were awarded to Veilleux)

Source	Award	Period Covered	Title of Program
NASA/ISO	\$49,000	01/01/96 - 08/19/01	Infrared Spectroscopy of a Unbiased Sample of Ultraluminous IRAS Galaxies with $\log[L_{\text{IR}}/L_{\odot}] = 12.3 - 13.0$ and $z = 0.1 - 0.3$ [ <b>PI</b> ]
NASA/STScI	\$10,050	07/01/96 - 06/30/98	Imaging of a Complete Sample of the Nearest Infrared Quasars [ <b>co-I</b> ]
NSF/EXC	\$135,000	07/15/96 - 06/30/01	Measuring the Metagalactic Ionizing Flux and the Gaseous Extent of Galaxies Using Fabry-Perot Spectrophotometry [ <b>co-PI</b> ]
NASA/LTSA	\$150,696	11/01/97 - 10/30/02	Origin and Impact of Nuclear Activity in Galaxies [ <b>PI</b> ]
Cottrell Schol. (no F&A)	\$50,000	06/01/98 - 05/31/03	Galaxy Evolution in the Local Universe: The Impact of Large-Scale Winds and Fountains on Nearby Galaxies [ <b>PI</b> ]
NASA/STScI	\$8,476	10/01/98 - 09/30/00	Fine Structure in the Nuclear Superbubble of NGC 3079 [ <b>co-I</b> ]
NASA/STScI	\$13,948	06/01/99 - 05/31/01	The Nuclei of Warm Ultraluminous Infrared Galaxies: Superstarbursts or AGN? [ <b>co-I</b> ]
NASA/Chandra	\$20,250	06/01/99 - 05/31/01	Mapping High-Velocity Shocks along the Jets of NGC 4258 [ <b>co-I</b> ]
NSF/CAREER	\$394,472	07/01/99 - 06/30/05	Superwinds, Galactic Fountains, and Gaseous Halos in Disk Galaxies [ <b>PI</b> ]
NASA/Chandra	\$15,000	01/01/03 - 12/31/04	The X-ray Properties of Ultraluminous Infrared Galaxies [ <b>co-I</b> ]
NSF/ATI	\$779,221	08/15/03 - 08/14/06	A Tunable Filter for Deep Wide-Field Emission-Line Surveys with Magellan [ <b>PI</b> ]
NASA/STScI	\$168,000	09/01/03 - 08/31/05	The Fundamental Plane of Massive Gas-Rich Mergers (\$128,183 to UMD) [ <b>PI</b> ]
NASA/INTEGRAL	\$13,885	09/15/03 - 09/14/04	INTEGRAL Observations of Ultraluminous Infrared Galaxies [ <b>co-I</b> ]
NASA/Spitzer	\$242,500	08/04/04 - 07/30/07	The Evolution of Activity in Massive Gas-Rich Mergers (Cycle 1 Medium-size program: 95.3 hours; \$183,683 to UMD) [ <b>PI</b> ]
NASA/Spitzer	\$35,000	08/04/04 - 07/30/07	Spitzer Observations of Luminous Infrared Galaxies (Cycle 1 Medium-size program: 91.6 hours) [ <b>co-I</b> ]

Source	Award	Period Covered	Title of Program
NASA/Spitzer	\$61,520	08/04/04 - 07/30/07	Mid-Infrared Properties, Excitation mechanisms, and AGN Content of LINERs (Cycle 1 Small program: 38.9 hours) [ <b>co-I</b> ]
NSF/EXC	\$469,881	06/01/06 - 05/31/09	Deep Wide-Field Surveys of Emission-Line Galaxies [ <b>PI</b> ]
NASA/Suzaku	\$41,552	06/27/06 - 09/24/07	The Dominant Energy Source of Ultraluminous Infrared Galaxies [ <b>PI</b> ]
NASA/XMM	\$38,476	07/25/06 - 07/24/07	The X-ray Spectrum of Ultraluminous Infrared Galaxies [ <b>co-PI</b> w/ A. S. Wilson]
NASA/SST	\$24,810	08/10/06 - 09/30/08	A Spitzer Spectroscopic Survey of a Complete Sample of Luminous Infrared Galaxies in the Local Universe (Cycle 3 Legacy program: 160.0 hrs) [ <b>co-I</b> ]
NASA/SST	\$20,224	08/10/06 - 09/30/08	Mid-IR Ultra-Deep Spectroscopy of the Cosmic Infrared anBackground (Cycle 3 Large program: 307.0 hrs) [ <b>co-I</b> ]
NASA/SST	\$17,542	08/10/06 - 09/30/08	Star Formation in QSOs at the Peak of Cosmic Quasar Activity (Cycle 3 Small program: 46.5 hrs) [ <b>co-I</b> ]
NASA/HST	\$127,817	10/01/06 - 09/30/08	The Fundamental Plane of Massive Gas-Rich Mergers. II. QUEST QSOs [ <b>PI</b> ]
NASA/SST	\$95,799	10/01/07 - 12/31/09	Opening the Window on Warm Dust in Starburst- and AGN-Driven Serwinds (Cycle 4 Archive program) [ <b>PI</b> ]
NASA/Suzaku	\$19,480	11/07/07 - 10/30/08	Spectra of the Brightest Warm Ultraluminous Infrared Galaxies [ <b>PI</b> ]
NASA/ADP	\$90,442	12/08/08 - 12/07/11	Evolution of Nuclear Activity in Massive Gas-Rich Mergers: The XMM-Newton Perspective [ <b>PI</b> ]
NASA/CXO	\$94,400	01/01/09 - 12/31/11	Evolution of Nuclear Activity in Massive Gas-Rich Mergers: The X-ray Perspective [ <b>PI</b> ]
NASA/XMM	\$42,500	03/01/09 - 02/28/11	Quasar/ULIRG Evolution Study (QUEST): X-ray Survey of PG QSOs [ <b>PI</b> ]
NASA/GALEX	\$29,000	03/01/09 - 02/28/10	GALEX Imaging of the Cooling-Flow Cluster Abell 1795 [ <b>PI</b> ]
Humboldt (no F&A)	\$75,906	02/01/09 - 01/31/12	QUEST: Ultraluminous Infrared Galaxies and the Origin of Quasars [ <b>PI</b> ]
NASA/HST	\$115,694	05/01/09 - 04/30/11	Deep FUV Imaging of Cooling Flow Clusters [ <b>PI</b> ]

Source	Award	Period Covered	Title of Program
NSF/EXC	\$499,515	09/15/10 - 08/31/13	Deep Wide-Field Surveys of Emission-Line Galaxies [ <b>PI</b> ]
NASA/Herschel	\$264,870	07/01/11 - 06/30/14	Extragalactic Science with Herschel (OT1) [ <b>PI</b> ]
NASA/HST	\$119,194	01/01/12 - 12/31/13	Ionized and Neutral Outflows in QUEST QSOs [ <b>PI</b> ]
NASA/HST	\$33,070	01/01/12 - 12/31/13	Deep FUV Imaging of Cooling Flow Clusters [ <b>PI</b> ]
NASA/Herschel	\$396,000	07/01/12 - 06/30/15	Extragalactic Science with Herschel (OT2) [ <b>PI</b> ]
NASA/Chandra	\$133,100	09/01/12 - 08/31/14	Quasar Feedback in Action: The Wide-Angle Wind of Mrk 231 [ <b>PI</b> ]
NSF/ATI	\$845,949	06/01/12 - 05/31/15	MOHSIS: The Maryland OH Suppression IFU System for the Discovery Channel Telescope [ <b>PI</b> ]
NASA/NESSF	\$90,000	09/01/12 - 08/31/15	Hunting Dark Gamma-Ray Bursts [ <b>PI</b> ]
Keck Foundation	\$1,000,000 (no overheads)	07/01/13 - 06/30/16	Miniaturization: The Next Wave in Astronomical Instrumentation [ <b>PI</b> ]

### j. Fellowships, Prizes, and Awards

- Keck Foundation Award, 2013
- “Humboldt Research Award to Senior U.S. Scientists (Renewed Visit)”, Alexander von Humboldt Foundation, Fall-Winter 2012
- Senior NASA (NPP) Fellowship, Goddard Space Flight Center, Spring-Summer 2012
- “Research Leaders” (success in research funding), U. Maryland, 2004, 2006, 2012, 2013
- Graduate Research Board Award, U. Maryland, Fall 2002
- NSF/CAREER (5-year) Award 1999
- Cottrell (5-year) Scholarship 1998
- NASA/LTSA (5-year) Award 1997
- Hubble Fellowship 1992-1995
- NSERC (Canada) Postdoctoral Fellowship 1989-91

- FCAR (Quebec) Postgraduate Scholarship 1988-89
- NSERC (Canada) Postgraduate Scholarship 1984-88
- UC Regents Fellowship, UC Santa Cruz, 1984-85
- NSERC (Canada) Summer Fellowship, 1982
- Undergraduate Scholarship, U. of Montreal, 1981

#### **k. Editorships, Editorial Boards, and Reviewing Activities for Journals**

Since 1995, I have reviewed an average of  $\sim 5$  articles every year for the Astrophysical Journal, the Astronomical Journal, the Monthly Notices of the Royal Astronomical Society, and Astronomy & Astrophysics.



### 3. TEACHING AND ADVISING

#### a. Courses taught since at Maryland

##### *i. General*

The following courses are all CORE undergraduate courses.

Fall 2013	ASTR380	“Life in the Universe” (60 non-science majors),
Fall 2010	ASTR380	“Life in the Universe” (43 non-science majors),
Spring 2002	ASTR100	“Introductory Astronomy” (130 non-science majors),
Fall 2007	ASTR100	“Introductory Astronomy” (280 non-science majors),
Spring 2002	ASTR100	“Introductory Astronomy” (130 non-science majors),
Fall 2000	ASTR100	“Introductory Astronomy” (150 non-science majors),
Spring 2000	ASTR100	“Introductory Astronomy” (110 non-science majors),
Spring 1999	ASTR220	“Collisions in Space” (45 non-science majors)
Fall 1998	ASTR220	“Collisions in Space” (45 non-science majors)
Spring 1997	ASTR100	“Introductory Astronomy” (125 non-science majors)
Fall 1996	ASTR100	“Introductory Astronomy” (200 non-science majors)

##### *ii. Specialized*

Fall 2011	ASTR620	“Galaxies” (16 graduate students),
Fall 2009	ASTR620	“Galaxies” (13 graduate students),
Fall 2006	ASTR310	“Observational Astronomy” (20 astro & physics majors),
Fall 2005	ASTR310	“Observational Astronomy” (14 astro & physics majors),
Fall 2004	ASTR421	“Galaxies” (12 astronomy & physics majors),
Fall 2001	ASTR498V	“Cosmology” (12 astronomy & physics majors),
Spring 2001	ASTR498G	“Galaxies” (8 astronomy & physics majors),
Fall 1999	ASTR620	“Galaxies” (14 graduate students),
Spring 1998	ASTR420	“Galactic Structure and Galaxies” (7 astronomy majors)
Fall 1997	ASTR620	“Galaxies” (11 graduate students)
Spring 1996	ASTR350	“Advanced Astrophysics” (5 astronomy majors)

##### *iii. University Honors, College Park Scholars, and other special programs*

##### *iv. Independent Study, Tutorial, Internship Supervision*

Fall 2013	ASTR898	Pre-candidacy research (2 graduate students)
Spring 2013	ASTR898	Pre-candidacy research (3 graduate students)

Spring 2013	ASTR699	Independent Study (1 graduate student)
Fall 2012	ASTR898	Pre-candidacy research (3 graduate students)
Fall 2012	ASTR699	Independent Study (3 graduate students)
Spring 2012	ASTR898	Pre-candidacy research (1 graduate student)
Spring 2012	ASTR699	Independent Study (4 graduate students)
Fall 2011	ASTR898	Pre-candidacy research (1 graduate student)
Fall 2011	ASTR699	Independent Study (3 graduate students)
Summer 2011	ASTR898	Pre-candidacy research (1 graduate student)
Summer 2011	ASTR699	Independent Study (3 graduate students)
Spring 2011	ASTR898	Pre-candidacy research (1 graduate student)
Spring 2011	ASTR699	Independent Study (1 graduate student)
Fall 2010	ASTR898	Pre-candidacy research (1 graduate student)
Spring 2010	ASTR898	Pre-candidacy research (1 graduate student)
Spring 2010	ASTR699	Independent Study (1 graduate student)
Fall 2009	ASTR699	Independent Study (1 graduate student)
Summer 2009	ASTR699	Independent Study (2 graduate students)
Spring 2009	ASTR699	Independent Study (2 graduate students)
Fall 2008	ASTR699	Independent Study (2 graduate students)
Summer 2008	ASTR699	Independent Study (2 graduate students)
Fall 2005	ASTR699	Independent Study (1 graduate student)
Summer 2005	ASTR699	Independent Study (1 graduate student)
Spring 2005	ASTR699	Independent Study (1 graduate student)
Fall 2004	ASTR699	Independent Study (1 graduate student)
Summer 2004	ASTR699	Independent Study (1 graduate student)
Spring 2001	ASTR699	Independent Study (1 graduate student)
Fall 2000	ASTR699	Independent Study (1 graduate student)
Spring 2000	ASTR699	Independent Study (1 graduate student)
Fall 1999	ASTR699	Independent Study (2 graduate students)
Spring 1999	ASTR699	Independent Study (1 graduate student)
Fall 1998	ASTR699	Independent Study (1 graduate student)

## b. Course or Curriculum Development

I pursued the following activities:

- Developed two new courses for astronomy majors in the Fall 2001 and Spring 2002 semesters: “Galaxies” (ASTR498G, now called ASTR421) and “Cosmology” (ASTR498V).
- My NSF/CAREER grant was used to upgrade the University of Maryland

Observatory and make better use of it for courses (e.g., ASTR310) and public viewing.

- Proposed modifications to ASTR 310 (Optical Astronomy Techniques) in the form of a revised syllabus submitted to J. Trasco in February 1997.
- Modernized the contents of ASTR 310 (Optical Astronomy Techniques), 2005.

### **c. Manuals, Notes, Software, and Other Contributions to Teaching**

Web-based home pages exist for all of the courses I have taught since Spring 1997 (these pages include interactive exercises).

### **d. Teaching Awards and Other Special Recognitions**

#### **e. Advising: Other than Research Direction**

##### *i. Ph.D. Thesis Committee*

- Mike Regan (member; Ph.D. 1996, astronomy)
- Jack Gallimore (member; Ph.D. 1996, astronomy)
- Edward J. M. Colbert (co-advisor; Ph.D. 1997, astronomy)
- Andy Ptak (dean's representative; Ph.D. 1997, physics)
- Arunav Kundu (co-advisor; Ph.D. 1999, astronomy)
- Mark G. Allen (member; Ph.D. 1999, astronomy, ANU)
- Kip Kuntz (member; Ph.D. 2000, astronomy)
- Lisa Kewley (member; Ph.D. 2001, astronomy, ANU)
- Don Horner (member; Ph.D. 2001, astronomy)
- Kartik Sheth (member; Ph.D. 2001, astronomy)
- Scott T. Miller (advisor; Ph.D. 2002, astronomy)
- Rachel Gibbons (co-advisor; Ph.D. 2002, astronomy)
- David S. Rupke (advisor; Ph.D. 2004, astronomy)
- James J. Marshall (member; Ph.D. 2004, astronomy)
- Elizabeth Hays (dean's representative; Ph.D. 2004, physics)
- Vincent (Bram) Lillard (dean's representative; Ph.D. 2004, physics)

- Lisa Mazzuca (advisor; Ph.D. 2006, astronomy)
- David Rosario (member; Ph.D. 2007, astronomy, University of Virginia)
- Rachel Kuzio-deNaray (member; Ph.D. 2007, astronomy)
- Laura Brenneman (member; Ph.D. 2007, astronomy)
- Ji-Hoon Kim (member; Ph.D. 2007, astronomy)
- Sonia Cianci (member; Ph.D. 2007, physics, University of Sydney)
- Barbara Matson (member; Ph.D. 2008, astronomy)
- Lisa Winter (member; Ph.D. 2008, astronomy)
- Jacky Cooper (member; Ph.D. 2008, astronomy, ANU)
- Stacy Teng (advisor; Ph.D. 2010, astronomy)
- Lisa Wei (member; Ph.D. 2010, astronomy)
- Ashley Zauderer (co-advisor; Ph.D. 2010, astronomy)
- Michael McDonald (advisor; Ph.D. 2011, astronomy)
- Edmund Hodges-Kluck (member; Ph.D. 2011, astronomy)
- Michael Koss (co-advisor; Ph.D. 2011, astronomy)
- Hannah Krug (advisor; Ph.D. 2013, astronomy)
- Megan Decesar (member; Ph.D. 2013, astronomy)

## **f. Advising: Research Direction**

### *i. Undergraduate*

- Melanie Freed (Undergraduate senior thesis 2001, University of Arizona)
- Michael Bergamo (Summer research project 2009)
- Ben Shaya (Summer research project 2010)

### *ii. Master's*

- Lisa Mazzuca (primary advisor, 2nd-year project; M. Sc. 2001)
- Barbara Mattson (co-advisor, 2nd-year project; M. Sc. 2001)
- Stacy Teng (co-advisor w/ A. Wilson, 2nd-year project; M. Sc. 2004)
- Ashley Zauderer (primary advisor, 2nd-year project; M. Sc. 2005)
- Lisa Wei (committee member, 2nd-year project; M. Sc. 2006)
- Michael McDonald (primary advisor, 2nd-year project; M. Sc. 2009)

- Hannah Krug (primary advisor, 2nd-year project; M. Sc. 2009)
- Alex McCormick (primary advisor, 2nd-year project; M. Sc. 2010)
- Alex McCormick (primary advisor, Pre-candidacy research; M. Sc. 2011)
- Kory Kreimeyer (primary advisor, 2nd-year project; M. Sc. 2012)
- Kory Kreimeyer (primary advisor, Pre-candidacy research; M. Sc. 2012)
- John Capone (primary advisor, 2nd-year project; M. Sc. 2012)
- John Capone (primary advisor, Pre-candidacy research, M. Sc. 2012)
- Alice Olmstead (co-advisor w/ J. Rigby, 2nd-year project; M. Sc. 2012)
- Alice Olmstead (co-advisor w/ J. Rigby, Pre-candidacy research; M. Sc. 2012)
- Vicki Toy (primary advisor, 2nd-year project, M. Sc. 2013)
- Vicki Toy (primary advisor, Pre-candidacy research, M. Sc. 2013)

*iii. Doctoral*

- Edward J. M. Colbert (co-advisor; Ph.D. 1997, Industry)
- Arunav Kundu (co-advisor; Ph.D. 1999, Michigan State University)
- Scott T. Miller (advisor; Ph.D. 2002, Pennsylvania State University)
- Rachel Gibbons (co-advisor; Ph.D. 2002, Industry)
- David S. Rupke (advisor; Ph.D. 2004, Rhodes College)
- Lisa Mazzuca (advisor; Ph.D. 2006, NASA/GSFC)
- Stacy Teng (advisor; Ph.D. 2010, NASA/GSFC)
- Ashley Zauderer (co-advisor w/ S. N. Vogel; Ph.D. 2010, Harvard/CfA)
- Michael McDonald (primary advisor, Ph.D. 2011; MIT)
- Michael Koss (co-advisor w/ R. Mushotzky, Ph.D. 2011; ETH Zurich)
- Hannah Krug (primary advisor, Ph.D. 2013; Private High School, Maryland)
- Alex McCormick (primary advisor, Ph.D. 2014; University of Maryland)
- John Capone (primary advisor, Ph.D. 2015; University of Maryland)
- Vicki Toy (primary advisor, Ph.D. 2016; University of Maryland)
- [Astrophotonic students; TBD] (co-advisor w/ M. Dagenais; Ph.D. 2016, University of Maryland)

*iv. Postdoctoral*

- Ben Weiner (2004-06; now research scientist at University of Arizona)
- Dong-Chan Kim (2004-08; now NRAO staff)

- David S. Rupke (2004-08; now professor, Rhodes College)
- Stacy Teng (co-advisor w/ R. Mushotzky, 2010-11; now at GSFC)
- Margaret Trippe (2009-13; now APL staff)
- Marcio Melendez (2011-...)
- [Astrophotonics postdoc; TBD] (co-advisor w/ M. Dagenais, 2014-16)

### **g. Extension Activities**

As Director of the Maryland – NOAO collaboration, I organized the Graduate Summer School at Kitt Peak in July 2004, June 2005, and June 2007 to provide astronomy graduate students with some hands-on experience with the KPNO telescopes and instruments. These summer schools were a great success: in 2004, we had to limit the number of students to 8 because of space limitations at the telescopes! See the UMD-NOAO website (<http://minerva.astro.umd.edu/UMD-NOAO/>) for pictorial summaries of the 2004 and 2005 Summer Schools.

## **4. SERVICE**

### **a. Professional**

#### *i. Offices and committee memberships*

- U.S. Member, Gemini Board 2013-2015
- Scientific Organizing Committee: “Galactic Winds”, Ringberg Meeting 2013 (Ringberg Castle, Germany)
- Scientific Organizing Committee: “Seyfert Galaxies: Known and the Unknown”, 39th COSPAR Scientific Assembly 2012 (Mysore, India)
- Scientific Organizing Committee: “Outflows, Winds and Jets”, NRAO-NAASC 2012 Workshop (Charlottesville, Virginia)
- Member, Australian Astronomy Observatory, User’s Committee 2011-2014
- Scientific Organizing Committee: “Astronomy at High Angular Resolution’ (AHAR11) conference on “The Central kiloparsec in galactic nuclei” 2011 (Bad Honnef, Germany)
- Scientific Organizing Committee: “The Starburst-AGN Connection under the Multiwavelength Limelight” 2011 (Villafranca del Castillo, Spain)
- Scientific Organizing Committee: “Star Formation in Galaxies: The Herschel Era” 2011 (Ringberg Castle, Germany)

- Scientific Organizing Committee: “Extreme Starbursts in the Local Universe” 2010 (Granada, Spain)
- Member, Chrétien Prize Selection Committee, AAS 2006-09
- NOAO/NEWFIRM Scientific Advisory Committee 2003-09
- Scientific Organizing Committee: “Extreme Starbursts” 2005 (Lijiang, China)
- Scientific Organizing Committee: “Astrophysics of Gaseous Nebulae and Active Galactic Nuclei” 2004 (Santa Cruz, California)
- Scientific Organizing Committee: “Structure and Dynamics in the Local Universe” 2003 (Sydney, Australia)
- Scientific Organizing Committee: “Galaxies: The Third Dimension” 2001 (Cozumel, Mexico)
- Invited Participant in “Science with Gemini” discussion workshop 1997 (Tucson, Arizona)

*ii. Reviewing activities for agencies*

- Member, NSF Review Panel 2013 (MRI; turned down due to earlier commitments)
- Chair, HST Time Assignment Committee 2013 (Extragalactic panel; turned down due to earlier commitments)
- Chair, Chandra X-Ray Observatory Review Committee 2012 (Extragalactic panel)
- Member, HST Time Assignment Committee 2012 (Extragalactic panel)
- Member, FQRNT (= Quebec’s “NSF”) Review Panel 2012 (Astrophysics committee)
- Member, NSF Review Panel 2011 (Extragalactic panel)
- Member, Hubble Fellowship Committee 2011
- Member, Spitzer Space Telescope Review Committee 2010 (Extragalactic panel)
- Chair, Chandra X-Ray Observatory Review Committee 2010 (Extragalactic panel [turned down this offer due to schedule conflict])
- Member, GALEX Time Assignment Committee 2009 (Extragalactic panel)
- Member, HST Time Assignment Committee 2008 (Extragalactic panel)
- Member, NSF Review Panel 2008 (Extragalactic panel)
- Member, Chandra X-Ray Observatory Review Committee 2007 (Extragalactic panel)
- Chair, Spitzer Space Telescope Review Committee 2007 (Extragalactic panel)

- Member, NSERC (Canada) Visiting Review Committee of TMT (Thirty-Meter Telescope) project 2006
- Member, NASA SST Fellowship Review Panel 2005
- Member, FCAR (Quebec) Review Panel of Astronomy Departments at McGill, Montreal, and Laval Universities 2005
- Member, NSF Review Panel 2002 (Extragalactic panel)
- Member, HST Time Assignment Committee 2001 (Extragalactic panel)
- Member, SUBARU Telescope Time Assignment Committee 2001-02
- Member, Telescopio Nazionale Galileo Time Assignment Committee 2001-02
- Member, Gemini/Keck (NIRSPEC) Time Assignment Committee 2000-01
- Member, La Palma International Time Program 1999
- Member, NASA/ROSAT X-ray Satellite Time Assignment Committee 1997
- Member, NSERC (Canada) Proposal Review Committee 1997
- Member, NASA/HST Time Assignment Committee 1995 (AGN panel)

*iii. Other unpaid services to local, state, and federal agencies*

Since 1998, I have reviewed an average of  $\sim 1$  Cottrell proposal every year for the Research Corporation.

*iv. Other non-University committees, commissions, panels, etc.*

- Member-at-large, promotion committees for a number of assistant and associate professors and research scientists in the U.S. and abroad (confidential).

*v. International activities not listed above*

- Member-at-large, Subaru Strategic Program Review 2011
- External reviewer for CFHT, WHT, AAT, and Gemini/Canada observing proposals,  $\sim 2-4$  per year, 1995-2013

## **b. University**

*i. Departmental*

- Director, Optical 2003-



- Chair, Graduate Admission Committee 2013-14
- Member, Second-Year Research Committee 2013-14
- Mentor, Assistant Prof. Michael Boylan-Kolchin 2013-15
- Chair, Second-Year Research Committee 2011-12
- Member, Faculty Search Committee 2011-12
- Member, Colloquium Committee Fall 2010
- Member, Graduate Admission Committee 2009-10
- Presenter, External Review of Astronomy Department 2009
- Chair, APT Committee (Stacy McGaugh's promotion) 2008-09
- Chair, Promotion Committee (Tracy Huard's promotion) 2008-09
- Member, APT Committee (Cole Miller's promotion) 2008-09
- Member, APT Committee (Chris Reynolds' promotion) 2008-09
- Member, Physical Sciences Complex (PSC) Committee 2007-09
- Member, Internal Review Committee for Astronomy Department 2008
- Chair, Graduate Admission Committee 2007-08
- Member, Prize Committee 2007-08
- Chair, Faculty Search Committee 2006-07
- Member, APT Committee (Andy Harris' promotion) 2006-07
- Member, Salary Advisory Committee 2006 & 2007
- Member, Graduate Curriculum Committee 2005-06
- Chair, APT Committee (Ed Shaya's promotion) 2005-06
- Chair, Second-Year Project Review Committee 2004-05
- Chair, Colloquium Committee Spring 2004
- Member, APT Committee (Stacy McGaugh's promotion) 2002-03
- Chair, Optical/Infrared Telescope Committee 1995-2003
- Director, Graduate Studies 2000-02
- Chair, Salary Advisory Committee 2001-02
- Member, Salary Advisory Committee 2000-01
- Member, Internal Review Committee for Astronomy Department 2000
- Member, Second-Year Project Review Committee 1998-99
- Member, TA Prize Committee 1997, 1998, 2000, 2001, 2002
- Member, Faculty Search Committee 1997-98
- Chair, Graduate Admission Committee 1997-98
- Member, Graduate Admission Committee 1996-97

- Co-Chair, Colloquium Committee 1995-96

The Maryland-NOAO Collaboration expired at the end of 2009. In collaboration with the Astronomy Chair, I explored new partnerships with Palomar, WIYN, ESO, UKIRT, OCIW, UH, CfA/Harvard, Steward Observatory, and Lowell Observatory. We entered into a new partnership with Lowell Observatory on July 2011.

*ii. College*

- Lead Co-chair, College APT Committee 2006-2007
- Member, College APT Committee 2005-2006
- Search Committee for Astronomy Chair 2002

*iii. University*

- Member, Data Management Committee 2010-
- Member, University APT Committee 2008-09 (declined due to Humboldt Research Award)
- Member, Campus Senate 1999-2000

*iv. Special administrative assignments*

*v. other*

**c. Communal, State, National**

- Judge, 2005 Robert Goddard French Immersion School Science Fair on December 7, 2005.
- Judge, 1999 Hyattsville Middle School Science Fair on February 25, 1999
- Referee, 1998 Maryland Junior Science and Humanities Symposium, “The Adventure of Science – Catch the Spirit, VII”; paper written by Andrew Waterman from Montgomery Blair High School on the “Infall and Rotation Stability of Virgo Cluster Spiral Galaxies”.

**d. Service Awards and Honors**

## **Certification of Vita**

I certify that this Vita is current and accurate.

Sylvain Veilleux

September 13, 2013