CURRICULUM VITAE

Nalin H. Samarasinha

CONTACT INFORMATION:

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EDUCATION:

Ph.D., Astronomy, 1992, University of Maryland at College Park
M.S., Astronomy, 1985, University of Maryland at College Park
B.Sc., Physics, First Class Honours, 1981, University of Colombo, Sri Lanka

EMPLOYMENT HISTORY:

2005-present, Senior Scientist, Planetary Science Institute, Tucson, Arizona.
2004-2005, Research Scientist, Planetary Science Institute, Tucson, Arizona.
2006-2009, Associate Scientist, National Optical Astronomy Observatory, Tucson, Arizona.
2001-2006, Assistant Scientist, National Optical Astronomy Observatory, Tucson, Arizona.
1996-2000, Research Associate, National Optical Astronomy Observatory, Tucson, Arizona.
1992-1996, Postdoctoral Researcher, National Optical Astronomy Observatory, Tucson, Arizona.
1987-1991, Research Assistant, Department of Astronomy, University of Maryland.
1982-1986, Teaching Assistant, Astronomy Program, University of Maryland.
1981-1982, Assistant Lecturer, Department of Physics, University of Colombo, Sri Lanka

RESEARCH INTERESTS:

Research interests are focused on understanding the physical, structural, dynamical, and chemical properties of small bodies in the solar system and their origin and evolution.

- Rotational studies of comets
- Morphological studies of cometary comae
- Physics and chemistry of nuclei and comae of comets
- Rotational and physical properties of asteroids and Trans-Neptunian-Objects
- Structural properties of small bodies in the solar system

RESEARCH EXPERIENCE:

Successful PI or Co-I of multiple NASA grants over the last two decades (funded by eight different Research and Analysis programs and Hubble Telescope grants). These resulted in over 60 peer-reviewed publications and over 150 abstracts.

TEACHING EXPERIENCE:

- Guest Lecturer (multiple occasions), Lunar and Planetary Laboratory, University of Arizona.
- Fall 2003 — Guest Lecturer, Columbia University Biosphere 2 Center, Oracle, Arizona.
- Summer 2003 — Summer Instructor, Department of Astronomy, University of Arizona.
- 1982-1986 — Teaching Assistant, University of Maryland, College Park.
- 1981-1982 — Assistant Lecturer, University of Colombo, Sri Lanka.

DISSERTATION COMMITTEES AND ADVISORY ROLES:

- Dissertation Committee Member for Charles Schambeau (University of Central Florida) – PhD 2018
- Dissertation Committee Member for Cassandra Lejoly (University of Arizona) – PhD 2021
- Examiner – MPhil Thesis of Mahesh Herath (University of Colombo)

SUPERVISION OF STUDENTS:

- Primary Research Advisor for multiple University of Arizona undergraduate students who were involved in research projects at the Planetary Science Institute (M.J. Dykhuis, L. Ojha, C. Lejoly, M.P. Martin, J.G. Barrera, A. Henrici, V. Morrison, C. McCormick, I. Bauer)
- Primary Research Advisor for a number of National Science Foundation Research Experiences for Undergraduates (REU) students over many years (T. Karr, L. Carter, R.L. Comstock, K.D. Mach, A.M. Heinrichs, S.P. Storm)

EDUCATION/PUBLIC OUTREACH ACTIVITIES:

- Presentation of public lectures on astronomy and space missions aimed at the general public and school children
- Active participation at star parties for school children
- Project ASTRO Astronomer Partner
- Co-Investigator of multiple NASA IDEA grants (grades K-12)
- Co-Investigator of multiple Supplemental Education Awards for NASA ROSES Investigators
- A number of newspaper articles on comets and space missions

PROFESSIONAL SOCIETIES/MEMBERSHIPS:

- Member, Division for Planetary Sciences (DPS) of the American Astronomical Society (AAS)
- Member, International Astronomical Union (IAU)
- Member, Asia-Oceania Geosciences Society (AOGS)
- Associate, Committee on Space Research (COSPAR)

HONORS & SERVICE:

• Asteroid 1998 ML_{37} was named by the International Astronomical Union as **(12871) Samarasinha** in recognition of contributions to cometary science

• Co-discoverer of asteroid **(607372) Colombounilanka**

• Co-Editor, *Mitigation of Hazardous Comets and Asteroids*, published by Cambridge University Press (2004)

• Co-Editor, Extended Abstracts from the NASA Workshop on *Scientific Requirements for Mitigation of Hazardous Comets and Asteroids* available online at https://noirlab.edu/science/sites/default/files/media/archives/documents/scidoc1953.pdf

• Providing theoretical and/or observational inputs in support of a number of NASA and ESA space missions (Deep Space 1, CONTOUR, Deep Impact, Stardust, EPOXI, Stardust NExT, Rosetta)

• Principal Investigator or Co-Investigator of a number of NASA Research grants (Planetary Astronomy, Planetary Atmospheres, Outer Planets Research, Discovery Data Analysis, Planetary Mission Data Analysis, Solar System Workings, Rosetta Data Analysis, and Planetary Data Archiving, Restoration, and Tools programs) and Space Telescope Science Institute grants

• Co-Investigator of multiple successful observing proposals (KPNO, CTIO, IRTF, HST, K2, Gemini)

• Review Panel Member for the NASA Outer Planets Research, Planetary Atmospheres, and Applied Information Systems Research Programs

• External Reviewer for the NASA Planetary Astronomy, Planetary Atmospheres, Planetary Geology and Geophysics, Planetary Mission Data Analysis, and Solar System Exploration Research Virtual Institute Programs

• Member, NOAO Telescope Time Allocation Committee (1998)

• Refereed manuscripts for the following astronomy/planetary science/science journals: *Icarus, Planetary Science Journal, Astrophysical Journal, Astronomical Journal, Astronomy and Astrophysics, Planetary and Space Science, Earth Moon and Planets, Advances in Space Research, Monthly Notices of the Royal Astronomical Society, Celestial Mechanics and Dynamical Astronomy, Astronomische Nachrichten, Journal of the National Science Foundation of Sri Lanka*

• International Editorial Advisory Board Member: *Journal of the National Science Foundation of Sri Lanka*

• Lead, Rotational Dynamics for the Rosetta Nucleus Modeling Group (RNMG) of the International Rosetta Mission

• Affiliate, Galileo Solid State Imaging Team

• Member, Scientific Organizing Committee for the NASA Workshop on *Scientific Requirements for Mitigation of Hazardous Comets and Asteroids*

• Member, Local Organizing Committee for the Division for Planetary Sciences (DPS/AAS) Meeting (1996)

• Co-organizer, Workshop on the *Rotation of EPOXI Mission target, Comet 103P/Hartley 2* (April, 2011)

• Session Chair for a number of DPS/AAS and Asteroids, Comets, Meteors (ACM) Meetings

• Session Chair, Workshop on "Spacecraft Reconnaissance of Asteroid and Comet Interiors" (2006)

• Co-organizer, *Tucson Area Comet Lunch*

PEER-REVIEWED BOOK CHAPTERS:

Samarasinha, N.H., Mueller, B.E.A, Belton, M.J.S., and Jorda, L. (2004) Rotation of Cometary Nuclei. In *Comets II* (M. Festou *et al.,* Eds.), University of Arizona Press.

Knight, M.M., Kokotanekova, R., and **Samarasinha, N.H.** (2024) Physical and Surface Properties of Comet Nuclei from Remote Observations. Accepted to be published in *Comets III* University of Arizona Press.

PEER-REVIWED PUBLICATIONS:

Goldberg, C., Lejoly, C., and **Samarasinha, N.** (2023). Analysis of CN Coma Morphology Features of Comet 21P/Giacobini-Zinner. *Planetary Science Journal*, **4**, id. 28, 19pp.

Lejoly, C., Harris, W., **Samarasinha, N.,** Mueller, B.E.A., Howell, E., Bodnarik, J., Springmann, A., Kareta, T., Sharkey, B., Noonan, J., Bedin, L.R., Bosch, J.-G., Brosio, A., Bryssinck, E., de Vanssay, J.-B., Hambsch, F.-J., Ivanova, O., Krushinsky, V., Lin, Z.-Y., Manzini, F., Maury, A., Moriya, N., Ochner, P., and Oldani, V. (2022). Radial Distribution of the Dust Comae of Comets 45P/Honda-Mrkos-Pajdušáková and 46P/Wirtanen. *Planetary Science Journal*, 3, id.17, 15 pp.

Springmann, A., Harris, W.M., Ryan, E.L., Lejoly, C., Howell, E.S., Mueller, B.E.A., **Samarasinha, N.H.,** Woodney, L.M., and Steckloff, J.K. (2022). Repeating Gas Ejection Events from Comet 45P/Honda-Mrkos-Pajdušáková. *Planetary Science Journal*, **3**, id.15, 9pp.

Davidsson, B.J.R., **Samarasinha, N.H.,** Farnocchia, D. and Gutiérrez, P.J. (2022). Modeling the Water and Carbon Dioxide Production Rates of Comet 67P/Churyumov-Gerasimenko. *Monthly Notices Royal Astronomical Society*, **509**, 3065-3085.

Schambeau, C.A., Fernández, Y.R., **Samarasinha, N.H.,** Womack, M., Bockelée-Morvan, D., Lisse, C.M., and Woodney, L.M. (2021). Characterization of Thermal-infrared Dust Emission and Refinements to the Nucleus Properties of Centaur 29P/Schwassmann-Wachmann 1. *Planetary Science Journal*, **2**, id.126, 14 pp.

Zhao, Y., Rezac, L., Skorov, Y., Hu, S.C., **Samarasinha, N.H.**, and Li, J.-Y. (2021). Sublimation as an Effective Mechanism for Flattened Lobes of (486958) Arrokoth, 2021. *Nature Astronomy*, **5**, 139-144.

Schambeau, C.A., Fernandez, Y.R., **Samarasinha, N.H.**, Woodney L.M., and Kundu, A. (2019). Analysis of HST WFPC2 Observations of Centaur 29P/Schwassmann-Wachmann 1 while in Outburst to Place Constriants on the Nucleus' Rotation State, 2019. *Astronomical Journal*, **158**, article id. 259, 16 pp.

Mommert, M., Kelley, M., de Val-Borro, M., Li, J.Y., Guzman, G., Sipocz, B., Durech, J., Granvik, M., Grundy, W., Moskovitz, N., Penttila, A., and **Samarasinha, N.** (2019). Sbpy: A Python Module for Small-body Planetary Astronomy. *J. Open Source Software,* 4, id. 1426.

Mueller, B.E.A., and **Samarasinha, N.H.** (2018). Further Investigation of Changes in Cometary Rotation. *Astronomical Journal*, **156**, article id 107, 7pp.

Steckloff, J.K., and **Samarasinha, N.H.** (2018). The Sublimative Torques of Jupiter-Family Comets and Mass Wasting Events on their Nuclei. *Icarus*, **312**, 172-180.

Li, J-Y., Kelley, M.S.P., **Samarasinha, N.H.**, Farnocchia, D., Mutchler, M. J., Ren, Y., Lu, X., Tholen, D.J., Lister, T., and Micheli, M. (2017). The Unusual Apparition Comet 252P/2000 G1 (LINEAR) and Comparison with Comet P/2016 BA_{14} (PanSTARRS). *Astronomical Journal,* **154**, article id. 136, 16 pp.

Schambeau, C.A., Fernandez, Y.R., **Samarasinha, N.H.,** Mueller, B.E.A., and Woodney, L.M. (2017). Analysis of R-band Observations of an Outburst of Comet 29P/Schwassmann-Wachmann 1 to Place Constraints on the Nucleus' Rotation State. *Icarus,* **284**, 359-371.

Li, J-Y., **Samarasinha, N.H.,** Kelley, M.S.P., Farnham, T.L., Bodewits, D., Lisse, C.M., Mutchler, M.J., A'Hearn, M.F., and Delamere, W.A. (2016). Seasonal Evolution on the Nucleus of Comet C/2013 A1 (Siding Spring), *Astrophysical* Journal, **817**, article id. L23.

Martin, M.P., **Samarasinha, N.H.**, and Larson, S. (2015). CometCIEF: A Web-based Image Enhancement Facility to Digitally Enhance Images of Cometary Comae, *Planetary and Space Science,* **118**, 181-186.

Samarasinha, N.H., and 48 co-authors. (2015). Results from the Worldwide Coma Morphology Campaign for Comet ISON (C/2012 S1), *Planetary and Space Science,* **118**, 127-137.

Schambeau, C.A., Fernandez, Y.R., Lisse, C.M., **Samarasinha, N.**, and Woodney, L.M. (2015). A New Analysis of Spitzer Observations of Comet 29P/Schwassmann-Wachmann 1, *Icarus,* **260**, 60-72.

Knight, M.M., Mueller, B.E.A., **Samarasinha, N.H.**, and Schleicher, D.G. (2015). A Further Investigation of Apparent Periodicities and the Rotational State of Comet 103P/Hartley 2 from Combined Coma Morphology and Light Curve Data Sets, *Astronomical Journal,* **150**, article id. 22.

Samarasinha, N.H., and Mueller, B.E.A. (2015). Component Periods of Non-Principal-Axis Rotation and their Manifestations in the Lightcurves of Asteroids and Bare Cometary Nuclei, *Icarus*, **248**, 347-356.

Li, J-Y., **Samarasinha, N.H.,** Kelley, M.S.P., Farnham, T.L., A'Hearn, M.F., Mutchler, M.J., Lisse, C.M., and Delamere, W.A. (2014). Constraining the Dust Coma Properties of Comet C/Siding Spring (2013 A1) at Large Heliocentric Distances, *Astrophysical Journal*, **797**, article id. L8.

Samarasinha, N.H., and Larson, S.M. (2014). Image Enhancement Techniques for Quantitative Investigations of Morphological Features in Cometary Comae: A Comparative Study, *Icarus,* **239**, 168-185.

Tricarico, P., **Samarasinha, N.H.,** Sykes, M.V., Li, J-Y., Farnham, T.L., Kelley, M.S.P., Farnocchia, D., Stevenson, R., Bauer, J.M., and Lock, R.E. (2014). Delivery of Dust Grains from Comet C/2013 A1 (Siding Spring) to Mars, *Astrophysical Journal*, **787**, article id. L35.

Samarasinha, N.H., and Mueller, B.E.A. (2013). Relating Changes in Cometary Rotation to Activity: Current Status and Applications to Comet C/2012 S1 (ISON), *Astrophysical Journal*, **775**, article id. L10.

Mueller, B.E.A., **Samarasinha, N.H.,** Farnham, T.L., and A'Hearn, M.F. (2013). Analysis of the Sunward Continuum Features of Comet 103P/Hartley 2 from Ground-based Images, *Icarus*, **222**, 799-807.

Samarasinha, N.H., Mueller, B.E.A., A'Hearn, M.F., Farnham, T.L., and Gersch, A. (2011). Rotation of Comet 103P/Hartley 2 from Structures in the Coma, *Astrophysical Journal*, **734**, article id. L3.

Meech, K.J., **Samarasinha, N.H.,** and 195 co-authors (2011). EPOXI: Comet 103P/Hartley 2 Observations from a Worldwide Campaign, *Astrophysical Journal*, **734**, article id. L1.

Belton, M.J.S., **Samarasinha, N.H.,** and 69 co-authors (2011). Stardust-NExT, Deep Impact, and the accelerating spin of 9P/Tempel 1, *Icarus*, **213**, 345-368.

Meech, K.J., **Samarasinha, N.H**., and 56 co-authors (2011). Deep Impact, Stardust-NExT and the behavior of Comet 9P/Tempel 1 from 1997 to 2010, *Icarus*, **213**, 323-344.

Mueller, B.E.A., **Samarasinha, N.H.,** Rauer, H., and Helbert, J. (2010). Determination of a Precise Rotation Period for the Deep Space 1 Target, Comet 19P/Borrelly, *Icarus*, **209**, 745-752.

Samarasinha, N.H. (2008). Rotational Excitation and Damping as Probes of Interior Structures of Asteroids and Comets, *Meteoritics and Planetary Science*, **43**, 1063-1073.

Samarasinha, N.H. (2007). Rotation and Activity of Comets, *Advances in Space Research*, **39**, 421-427.

Farnham, T.L., **Samarasinha, N.H.**, Mueller, B.E.A., and Knight, M.M. (2007). Cyanogen Jets and the Rotational State of Comet Machholz (C/2004 Q2). *Astronomical Journal,* **133***,* 2001-2007.

McCarthy, Jr., D.M., Stolovy, S.R., Campins, H., Larson, S., **Samarasinha, N.H.**, and Kern S.D. (2007). Comet Hale-Bopp in Outburst: Imaging the Dynamics of Icy Particles with HST/NICMOS, *Icarus*, **189**, 184-195.

Knight, M.M., Walsh, K.J., A'Hearn, M.F., Swaters, R.A., Zauderer, B.A., **Samarasinha, N.H.,** Vázquez, R., and Reitsema, H. (2007). Ground-based Visible and Near-IR Observations of Comet 9P/Tempel 1 During the Deep Impact Encounter, *Icarus*, 1**87**, 199-207.

Hergenrother, C.W., Mueller, B.E.A., Campins, H., **Samarasinha, N.H.,** and McCarthy, D.W. (2006). R- and J-band Photometry of Comets 2P/Encke and 9P/Tempel 1, *Icarus*, **181**, 156-161.

Meech, K.J., **Samarasinha, N.H.,** and 207 co-authors (2005). Deep Impact: Observations from a Worldwide Earth-Based Campaign, *Science*, **310**, 265-269.

Gutiérrez, P.J., Jorda, L., **Samarasinha, N.H.,** and Lamy, P. (2005). Outgassing-induced Effects in the Rotational State of comet 67P/Churyumov-Gerasimenko During the Rosetta Mission, *Planetary and Space Science*, **53**, 1135-1145.

Fernández, Y.R., Lowry, S.C., Weissman, P.R.; Mueller, B. E. A., **Samarasinha, N.H.**, Belton, M.J.S., and Meech, K.J. (2005). New Near-aphelion Light Curves of Comet 2P/Encke, *Icarus*, **175**, 194-214.

Belton, M.J.S., **Samarasinha, N.H.**, Fernández, Y.R., and Meech, K.J. (2005). The Excited Spin State of Comet 2P/Encke, *Icarus*, **175**, 181-193.

Mueller, B.E.A., Hergenrother, C.W., **Samarasinha, N.H.**, Campins, H., and McCarthy Jr., D.W. (2003). Simultaneous Visible and Near-infrared Time Resolved Observations of the Outer Solar System Object (29981) 1999 TD_{10}, *Icarus*, **171**, 506-515.

Samarasinha, N.H., and Mueller, B.E.A. (2002). Rotation Axis of Comet 19P/Borrelly based on Observations from 2000 and 2001, *Earth Moon and Planets*, **90**, 473-482.

Mueller, B.E.A., and **Samarasinha, N.H.** (2002). Visible Lightcurve Observations of Comet 19P/Borrelly, *Earth Moon and Planets*, **90**, 463-471.

Mueller, B.E.A., **Samarasinha, N.H.**, and Belton, M.J.S. (2002). The Diagnosis of Complex Rotation in the Lightcurve of 4179 Toutatis and Potential Applications to Other Asteroids and Bare Cometary Nuclei, *Icarus*, **158**, 305-311.

Samarasinha, N.H. (2001). A Model for the Breakup of Comet LINEAR (C/1999 S4), *Icarus*, **154**, 540-544.

Julian, W.H., **Samarasinha, N.H.**, and Belton, M.J.S. (2000). Thermal Structure of Cometary Active Regions: Comet 1P/Halley, *Icarus*, **144**, 160-171.

Samarasinha, N.H. (2000). Coma Morphology Due to an Extended Active Region and Implications for the Spin State of Comet Hale-Bopp, *Astrophysical Journal*, **529**, L107-L110.

Samarasinha, N.H., Mueller, B.E.A., and Belton, M.J.S. (1999). Coma Morphology and Constraints on the Rotation of Comet Hale-Bopp (C/1995 O1), *Earth Moon and Planets*, **77**, 189-198.

Mueller, B.E.A., **Samarasinha, N.H.**, and Belton, M.J.S. (1999). Imaging of the Structure and Evolution of the Coma Morphology of Comet Hale-Bopp (C/1995 O1), *Earth Moon and Planets*, **77**, 181-188.

Kim, S.J., and **Samarasinha, N.H.** (1999). Possible Emission Structure of C_2H in the 2.5 micron Infrared Spectra of Comets, *Pub. Korean Astron. Soc.*, **14**, 33-37.

Meech, K.J., Buie, M.W., **Samarasinha, N.H.**, Mueller, B.E.A., and Belton, M.J.S. (1997). Observations of Structures in the Inner Coma of Chiron with the HST Planetary Camera, *Astronomical Journal*, **113**, 844-862.

Samarasinha, N.H., Mueller, B.E.A., and Belton, M.J.S. (1996). Comments on the Rotational State and Non-Gravitational Forces of Comet 46P/Wirtanen, *Planetary and Space Science*, **44**, 275-281.

Samarasinha, N.H., and Belton, M.J.S. (1995). Long-Term Evolution of Rotational States and Non-Gravitational Effects for Halley-like Cometary Nuclei, *Icarus*, **116**, 340-358.

Samarasinha, N.H., and Belton, M.J.S. (1994). The Nature of the Source of CO in Comet P/Halley, *Icarus*, **108**, 103-111.

Schulz, R., A'Hearn, M.F., and **Samarasinha, N.H.** (1993). On the Formation and Evolution of Gaseous Structures in Comet P/Halley, *Icarus*, **103**, 319-328.

Samarasinha, N.H., and A'Hearn, M.F. (1991). Observational and Dynamical Constraints on the Rotation of Comet P/Halley, *Icarus*, **93**, 194-225.

Hoban, S., **Samarasinha, N.H.**, A'Hearn, M.F., and Klinglesmith, D.A. (1988). An Investigation into Periodicities in the Morphology of CN Jets in Comet P/Halley, *Astronomy and Astrophysics*, **195**, 331-337.

Wilson, A.S., **Samarasinha, N.H.**, and Hogg, D.E. (1985). Magnetic Fields in the Jet of the Crab Nebula, *Astrophysical Journal*, **294**, L121-L124.

PEER-REVIWED SUBMISSIONS TO NASA PLANETARY DATA SYSTEM (PDS):

Mueller, B.E.A., and **Samarasinha, N. H.** (2012). Images of Comet 19P/BORRELLEY from 9/21-23, 2001 V1.0, NASA Planetary Data System, EAR-C-I0065-2-IMGBORRELLYKPNO-V1.0.

Mueller, B.E.A., **Samarasinha, N. H.,** and Raugh, A.C. (2010). CTIO Images of 19P/BORRELLEY with Photometry, NASA Planetary Data System, EAR-C-CFCCD-5-RDR-CTIO-BORR-PHOTOM-V1.0.

Mueller, B.E.A., Hergenrother, C.W., **Samarasinha, N. H.,** Campins, H., and McCarthy, D.W., Jr. (2006). Visual Imaging and Photometry of (29981) 1999 TD10 V1.0, NASA Planetary Data System, EAR -A-I0065-3-TD10PHOT-V1.0.

PHD DISSERTATION:

Samarasinha, N.H. (1992). Temporal and Spatial Inhomogeneities in Comets, University of Maryland at College Park. Advisor: Professor M. F. A'Hearn

CONFERENCE PROCEEDINGS:

Samarasinha, N.H. (2002). Inferring Interior Structures of Comets and Asteroids by Remote Observations. In *Extended Abstracts from the NASA Workshop on Scientific Requirements for Mitigation of Hazardous Comets and Asteroids* available at https://noirlab.edu/science/sites/default/files/media/archives/documents/scidoc1953.pdf

Samarasinha, N.H. (1998). Cometary Spin States, Their Evolution, and the Implications, In *Proceedings of the IAU Colloquium 168*.

Samarasinha, N.H., A'Hearn, M.F., Hoban, S., and Klinglesmith, D.A. (1986). CN Jets of Comet P/Halley- Rotational Properties, In *Exploration of Halley's Comet (ESA SP-250 Vol. 1)*, 487-491.

Wilson, A.S., **Samarasinha, N.H.**, and Hogg, D.E. (1985). High Resolution Radio Studies of the Crab Nebula, In *The Crab Nebula and Related Supernovae Remnants*, (Ed: Kafatos and Henry) Cambridge Univ. Press, Cambridge, UK, 133-150.

INTERNATIONAL ASTRONOMICAL UNION (IAU) CIRCULARS:

Samarasinha, N.H., Mueller, B.E.A., A'Hearn, M.F., and Farnham, T.L. (2010). On the excited rotational state of Comet 103P/Hartley 2 based on the CN images, *IAU Circular 9178*.

Farnham, T.L., Samarasinha, N.H., and Mueller, B.E.A. (2010). On the rotation period of Comet 81P/Wild 2, *IAU Circular 9138*.

Fernandez, Y.R., Mueller, B.E.A., and **Samarasinha, N.H.** (2008). On an unusually large outburst of Comet 29P/Schwassmann-Wachmann 1, *IAU Circular 8991*.

Woodney, L., McMullin, J., A'Hearn, M., and **Samarasinha, N.** (1997). Detection of H_2CS in comet Hale-Bopp, *IAU Circular 6607*

REPORTS AND COMMENTS:

Samarasinha, N.H. (2001). Near-Nucleus Dust Environment. In *Report of the CONTOUR Encke Workshop* held at Harvard Smithsonian Center for Astrophysics.

Samarasinha, N., Boehnhardt, H., Jorda, L., Marzari, F., Mueller, B., and Scheeres, D. (1999). Rotation Models of Comet 46P/Wirtanen. *Report Submitted to the International Rosetta Project.*

Pilachowski, C., **Samarasinha, N.**, and Mueller, B. (1997) ``Snowballs'' from Space?, *Science*, **277**, 459.

CONTRIBUTED PAPERS (ABSTRACTS):

There are over 150 with many being first author abstracts.