

Gal Sarid, Ph.D., Planetary Scientist

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Scholarly Interests

- Res. **Exploration of Small Bodies (comets, asteroids, dwarf planets).**
Evolution of structure and composition through dynamic processes.
R&D of space mission architecture and instrument concepts for remote and in-situ measurements.
- Edu. **Accessibility to multi-disciplinary STEM education.**
Enabling K-12 interests through extra-curricular activities.
Promoting critical thinking and simplified approaches to expert topics or fields.

Education

- 2010 **Ph.D., Planetary Sciences, Tel Aviv University, Israel.**
Thesis title: *Thermal & Structural Evolution of Small Bodies in the Solar System* (10/2009 submitted).
- 2004 **B.Sc. (Cum Laude), Geophysics & Planetary Sciences, Tel Aviv University, Israel.**
Following a double physics & math major program.

Positions

- 10/2014 to Present **Scientist (Research Faculty). Florida Space Institute, University of Central Florida.**
Graduate Faculty Associate. College of Graduate Studies, University of Central Florida.
- ◇ Leading and guiding development of software modules for particle and grid-based calculations.
 - ◇ Developing observation/exploration schemes through space-based mission and instrument concepts.
 - ◇ Developing numerical models of thermodynamic and hydrodynamic processes in small bodies.
 - ◇ Leading technical reports and proposals with astronomy and planetary community partners.
 - ◇ Participating in educational activities within the university's Physics and Aerospace programs.
 - ◇ Mentoring Undergraduate student research projects and serving on thesis committees.
- 10/2012 to 10/2014 **Postdoctoral Research Associate. Earth & Planetary Sciences, Harvard University.**
- ◇ Developed computational tools to analyze large numerical simulations and fit to real-world data.
 - ◇ Led technical reports and proposals within the planetary community.
 - ◇ Led numerical modeling of shock physics and physical-chemical processing of comets and asteroids.
 - ◇ Developed simulations of large-scale shock processes during early phases of planet formation.
- 10/2009 to 10/2012 **Postdoctoral Researcher. Institute for Astronomy, University of Hawai'i.**
Research Fellow. NASA Astrobiology Institute, University of Hawai'i.
- ◇ Developed analysis tools for observations and data analysis.
 - ◇ Developed software package and numerical implementation of heat & mass transfer models.
 - ◇ Developed physics-based modeling and visualization to support science case and concept of operations for a space mission proposal.
 - ◇ Led modeling of thermal evolution for comets, active asteroids and early solar nebula composition.

Positions (continued)

- 09/2003 to 09/2009 **Teaching and Research Assistant. Geophysics & Planetary Sciences, Tel Aviv University.**
- ◇ Developed computational models for thermal and structural evolution of comet nuclei.
 - ◇ Developed curriculum, teaching material and evaluation tools.
 - ◇ Taught and organized class lectures, problem sets and term exams.

Skills

- Programming **C/C++, Fortran, Matlab, Python, Shell script.**
- OS **Linux/Unix, Mac OS, Windows.**
- Web Dev **HTML, CSS, Git.**
- Auxiliary **MPI, LaTeX (tex, sty and cls), GIMP/Photoshop, Microsoft Office.**

Professional Activities

- NASA Discovery Program projects.** 2010 – 2011, 2018 – Present.
Core development team of space mission concept, science and operations.
- NASA DART mission Investigation team.** 2018 – Present.
Working groups on Dynamics, Ejecta and Proximity Operations.
- LSST Solar System Science Collaboration.** 2017 – Present.
Working groups on Active objects, Outer Solar System and Community software development.
- NASA/OPAG Roadmap to Ocean Worlds (ROW).** 2017 – 2018.
Working group on framework and future mission studies.
- WFIRST Solar System working group.** 2016 – 2018.
Science case integration and summary paper.
- ESA-NASA AIDA mission.** 2015 – 2017.
Working groups on Physical properties and Ejecta modeling.
- AAS Astronomy Ambassador program.** 2015 – Present.
Professional development in science communication and public engagement.
- SciCoder workshop alumni.** 2013.
Professional development training in programming, database and documentation).
- Harvard Postdoc Advisory Board.** 2012 – 2014.
Advancing group interests in regulations, work-life balance and health-care benefits.

Grants

- Co-PI on Florida Space Research Program grant:** "ARTISAN: Autonomous Real-Time Identification with Space-based Agent Nodes". 2018-2019 (\$25K).
- Co-PI on NASA Emerging Worlds Program grant:** "Early Evolution and Survivability of Amorphous Water Ice Within Small Icy Bodies". 2018-2021 (\$322K).
- Co-I on NASA Planetary Data Archiving, Restoration, and Tools Program grant:** "PRimitive Asteroids Spectroscopic Survey (PRIMASS): the past as a puzzle". 2018-2020 (\$160K).
- Co-PI on NSF Planetary Astronomy grant:** "Carbon monoxide in comets". 2016-2019 (\$250K).
- PI on Space Research Initiative grant:** "Numerical and Analytical Models in Support of Planetary Exploration". 2017-2018 (\$80K).
- PI on Space Research Initiative grant:** "Thermal and collisional evolution of minor bodies and dwarf planets". 2015-2017 (\$215K).

Professional Activities (continued)

- Co-I on internal proposal to **NASA's Asteroid Redirect Mission (ARM)**: "Assessing Thermal Shock on Rock Surface Strength". 2016-2017 (\$128K).
- Co-I on **NASA Planetary Mission Data Analysis Program** grant: "Archiving a 25-Year Ground-Based Primitive Body Imaging Dataset". 2012-2016 (\$1.15M).
- Co-I on **NSF Planetary Astronomy** grant: "Water in the Asteroid Belt: Main Belt Comet Discovery, Characterization, and Modeling". 2010-2013 (\$472K).

Service

- **Journal reviews:** Nature Astronomy, Icarus, Astronomy Journal, Publication of the Astronomical Society of the Pacific, Planetary & Space Science, Meteoritics & Planetary Science, Advances in Space Research, Monthly Notices of the Royal Astronomical Society, Asteroids IV book.
- **Selection panels:** NSF, Planetary Astronomy – Panel member & external reviewer; NASA R&A – Panel member & external reviewer (Outer Planet Research, Origins of Solar Systems, Planetary Geology & Geophysics, Solar System Workings, Exoplanets Research Program, Emerging Worlds, Discovery/Rosetta Data Analysis); NASA Postdoctoral Program – External reviewer; NASA Earth & Space Science Fellowship – Panel lead & organizer.
- **Membership:** International Astronomical Union (Division C, Education & Outreach, and Division F, Planetary Systems and Bioastronomy); American Astronomical Society – Division for Planetary Sciences; American Geophysical Union (General member).

Meetings

- **Science Organizing Committee:** Centaur Exploration Workshop (2019, Lead); Division for Planetary Science Annual Meeting (2018, Member).
- **Local Organizing Committee:** Centaur Exploration Workshop (2019, Lead); Active Centaurs Workshop (UCF/USF, 2017, Lead).
- **Convener:** Astrobiology Science Conference (American Geophysical Union, 2019, Lead for topical session); European Planetary Science Congress & Division for Planetary Science Joint Meeting (2019, Member for 2 topical sessions).
- **Organizer:** Planetary science seminar & journal club, University of Central Florida (2015 – Present, Chair); Astro-coffee seminar series, Institute for Astronomy, Hawai'i (2009 – 2012, Chair); Astrobiology colloquium, University of Hawai'i (2009 – 2012, Assistant); Planetary science group seminar, Tel-Aviv University (2005 – 2007, Lead);

Awards

- International travel award: American Astronomical Society (2012, 2015), International Astronomical Union (2015).
- NSERC CREATE, Canadian Astrobiology Training Program (2012, declined).
- Aly Kaufmann fellowship, Technion – Israel Institute of Technology (2012, declined).
- NASA Astrobiology Institute research fellowship, University of Hawai'i (2009 – 2012).
- Research fellowship, Max-Planck Institute for Solar System Research (2009, declined).
- The Ilan Ramon commemorative scholarship, The Israeli Commercial & Industrial Club (2006).
- The Ilan Ramon & Rabbi Dasberg excellence award, Tel-Aviv University (2005).

Synergistic Activities

- **Consultant/commentator:** Discovery channel special documentary about SpaceIL launch (2019); NPR (WMFE) story about SpaceIL launch (2019); Online radio (BlogTalkRadio) space news (2017 – 2019); Lowell Observatory asteroids science exhibit (2016); Orlando Science Center space activities (2015 – Present); MMO game development "*Age of Ascent*" (2015); BBC science series "*Horizon*" (2013); "*Discovery Magazine*" popular science section (2011).
- **Public outreach (Partial list)**
 - ◇ Orange County library programs (Adults/Teens) – Space Exploration, Physics of Superheroes. 2019.
 - ◇ Orlando Science Center, NASA @ My Library program – Exploration of asteroids and comets. 2018 (~100 ppl/event).
 - ◇ Jewish Community Center of Greater Orlando, "Hot Talks" series – Physics of Superheroes. 2018 (~30 ppl/event).
 - ◇ International Observe the Moon Night, UCF Campus, co-organizer. 2015 — 2017 (~200 people/event).
 - ◇ PechaKucha Orlando, solar system exploration presentation. 2015 (~600 people/event).
 - ◇ Orlando Science Center, Pluto exploration event. 2015 (~100 people/event).
 - ◇ Kalihi community center after-school activities, Honolulu, Hawai'i. 2012 (~10 kids/event).
 - ◇ Hawai'i State Science Fair, category judge. 2011.
 - ◇ Institute for Astronomy and Physics Day open houses, University of Hawai'i. 2010 – 2012 (~300 ppl/year).
 - ◇ Tel Aviv University Astronomy Club (voluntary activity in astronomy, physics and science towards the general public). 2004 – 2009 (~100 – 5000 ppl/event).
 - ◇ Extracurricular education for gifted children, general astronomy and the Solar system, Israel. 2004 – 2009 (~10–15 kids/class).

Gal Sarid: Publications List

Journal Articles

- 1 Holler, B. J., Milam, S. N., Bauer, J. M., Alcock, C., Bannister, M. T., BJORAKER, G. L., ... West, R. A. (2018). Solar system science with the Wide-Field Infrared Survey Telescope. *Journal of Astronomical Telescopes, Instruments, and Systems*, 4, 034003. doi:10.1117/1.JATIS.4.3.034003
- 2 Wierzchos, K., Womack, M. & Sarid, G. (2017). Carbon Monoxide in the Distantly Active Centaur (60558) 174P/Echeclus at 6 au. *Astronomy Journal*, 153, 230. doi:10.3847/1538-3881/aa689c
- 3 Womack, M., Sarid, G. & Wierzchos, K. (2017). CO in Distantly Active Comets. *Publications of the Astronomical Society of the Pacific*, 129, 031001. doi:10.1088/1538-3873/129/973/031001
- 4 Belton, M. J. S., Thomas, P., Carcich, B., Quick, A., Veverka, J., Jay Melosh, H., ... Sarid, G. (2013). The origin of pits on 9P/Tempel 1 and the geologic signature of outbursts in Stardust-NExT images. *Icarus*, 222, 477-486. doi:10.1016/j.icarus.2012.03.007
- 5 Hainaut, O. R., Kleyana, J., Sarid, G., Hermalyn, B., Zenn, A., Meech, K. J., ... Yang, B. (2012). P/2010 A2 LINEAR. I. An impact in the asteroid main belt. *Astronomy & Astrophysics*, 537, A69. doi:10.1051/0004-6361/201118147
- 6 Meech, K. J., A'Hearn, M. F., Adams, J. A., Bacci, P., Bai, J., Barrera, L., ... Ziffer, J. E. (2011). EPOXI: Comet 103P/Hartley 2 Observations from a Worldwide Campaign. *Astrophysical Journal*, 734, L1. doi:10.1088/2041-8205/734/1/L1
- 7 Belton, M. J. S., Meech, K. J., Chesley, S., Pittichová, J., Carcich, B., Drahus, M., ... Zhao, H. (2011). Stardust-NExT, Deep Impact, and the accelerating spin of 9P/Tempel 1. *Icarus*, 213, 345-368. doi:10.1016/j.icarus.2011.01.006
- 8 Meech, K. J., Pittichová, J., Yang, B., Zenn, A., Belton, M. J. S., A'Hearn, M. F., ... Zhao, H. (2011). Deep Impact, Stardust-NExT and the behavior of Comet 9P/Tempel 1 from 1997 to 2010. *Icarus*, 213, 323-344. doi:10.1016/j.icarus.2011.02.016
- 9 Guilbert, A., Barucci, M. A., Brunetto, R., Delsanti, A., Merlin, F., Alvarez-Candal, A., ... Sarid, G. (2009). A portrait of Centaur 10199 Chariklo. *Astronomy & Astrophysics*, 501, 777-784. doi:10.1051/0004-6361/200911660
- 10 Sarid, G. & Prrialnik, D. (2009). From KBOs to Centaurs: The thermal connection. *Meteoritics and Planetary Science*, 44, 1905-1916. doi:10.1111/j.1945-5100.2009.tb02000.x
- 11 Prrialnik, D., Sarid, G., Rosenberg, E. D. & Merk, R. (2008). Thermal and Chemical Evolution of Comet Nuclei and Kuiper Belt Objects. *Space Science Reviews*, 138, 147-164. doi:10.1007/s11214-007-9301-4
- 12 Sarid, G., Prrialnik, D., Meech, K. J., Pittichová, J. & Farnham, T. L. (2005). Thermal Evolution and Activity of Comet 9P/Tempel 1 and Simulation of a Deep Impact. *Publications of the Astronomical Society of the Pacific*, 117, 796-809. doi:10.1086/431657

Book Chapters

- 1 Sarid, G., Stewart, S. T. & Leinhardt, Z. M. (2016). Erosive Hit-and-Run Impact Events: Debris Unbound. In S. R. Chesley, A. Morbidelli, R. Jedicke & D. Farnocchia (Eds.), *Asteroids: New observations, new models* (Vol. 318, pp. 9-15). IAU Symposium. doi:10.1017/S1743921315009679

- 2 Prialnik, D., **Sarid, G.**, Rosenberg, E. D. & Merk, R. (2009). Thermal and Chemical Evolution of Comet Nuclei and Kuiper Belt Objects. In H. Balsiger, K. Altwegg, W. Huebner, T. Owen & R. Schulz (Eds.), *Origin and early evolution of comet nuclei, space sciences series of issi, volume 28. isbn 978-0-387-85454-0. springer science+business media, bv, 2009, p. 147* (p. 147). doi:10.1007/978-0-387-85455-7_9

Non-Reviewed Publications

- 1 Muna, D., Alexander, M., Allen, A., Ashley, R., Asmus, D., Azzollini, R., ... Zonca, A. (2016a). The astropy problem. arXiv e-prints. arXiv:1610.03159.
- 2 Yang, B. & **Sarid, G.** (2010b). Comet p/2010 h2 (vales). International Astronomical Union Circular. 2010IAUC.9139....2Y.

In Revision

- 1 **Sarid, G.**, Brunetto, R. & DeMeo, F. E. (n.d.). *Masking Water Ice Features in Surface Spectra of Small Icy Bodies*. Icarus.
- 2 **Sarid, G.** & Prialnik, D. (n.d.). *Survival of Ice in Main Belt Active Asteroids – A Parameter Study*. Monthly Notices of the Royal Astronomical Society.

In Preparation

- 1 Larson, J. & **Sarid, G.** (n.d.). *An N-body particle model for ejecta dynamics on small bodies: Application to NEAs*.
- 2 **Sarid, G.** (n.d.). *Dynamical and thermal pathways in the evolution of Centaur objects*.
- 3 **Sarid, G.**, Stewart, S. T. & Leinhardt, Z. (n.d.). *Mercury, the Impactor: Fate of projectiles emerging from Hit-and-Run events in the inner solar system*.
- 4 **Sarid, G.**, Volk, K. & Steckloff, J. (n.d.). *A dynamical study of 29P/S-W1's Origin and comet connection*.
- 5 **Sarid, G.** & Womack, M. e. a. (n.d.). *The 2019 Centaur Exploration Workshop: Exploring and Understanding Activity in the Outer Solar System*.

Conference Abstracts

- 1 Steckloff, J. K. & **Sarid, G.** (2019). On the Survival of Amorphous Water Ice Within Icy Bodies During Collisional Events in the Early Solar System. In *Lunar and planetary science conference* (p. 2470). Lunar and Planetary Science Conference.
- 2 Bufanda, E., Meech, K., Schambeau, C., **Sarid, G.**, Hainaut, O., Kleyna, J. T., ... Sahu, D. (2018). Constraining the Physical Properties and Activity of 3 Unique Comets: 2009 MS9, C/2016 VZ18, and C/2016 R2. In *Aas/division for planetary sciences meeting abstracts* (p. 204.06).
- 3 Larson, J. & **Sarid, G.** (2018a). Ejecta Clouds with a Chance of Binary Asteroids: Application of an Ejecta Dynamics Package to the DART Mission Target. In *Aas/division for planetary sciences meeting abstracts* (p. 105.08).
- 4 **Sarid, G.**, Womack, M. & Wierzchos, K. (2018). "Stay Active My Friend": 29P/S-W1, The Most Interesting Comet in the World. In *Aas/division for planetary sciences meeting abstracts* (p. 509.04).

- 5 Schambeau, C., Fernandez, Y., Woodney, L., Samarasinha, N., Meech, K., Knight, M., ... Presler-Marshall, B. (2018). Characterizing Comets in the Centaur-to-Jupiter Family Transition. In *Aas/division for planetary sciences meeting abstracts* (p. 204.12D).
- 6 Sarid, G. (2018a). When Mercury Smashed: Dynamics and Composition Through a Grazing Collision with a Larger Planet. In *Mercury: Current and future science of the innermost planet* (Vol. 2047, p. 6127).
- 7 Larson, J. & Sarid, G. (2018b). One Body, Two Body, Small Body, N-Body: Ejecta Dynamics in the Environment of Single and Binary Asteroids. In *Lunar and planetary science conference* (p. 2997).
- 8 Sarid, G. (2018b). Thermal Cycling on Surfaces of Small Asteroids: A Layer-to-Grain Approach. In *Lunar and planetary science conference* (p. 3009).
- 9 Larson, J. & Sarid, G. (2017a). REBOUND-ing Off Asteroids: An N-body Particle Model for Ejecta Dynamics on Small Bodies. In *Aas/division for planetary sciences meeting abstracts #49* (p. 111.01). AAS/Division for Planetary Sciences Meeting Abstracts.
- 10 Larson, J. & Sarid, G. (2017b). Modeling the Evolution of Ejects Clouds Off Small Bodies: An N-Body Particle Approach with REBOUND. In *Lunar and planetary science conference* (p. 2829).
- 11 Sarid, G. & Larson, J. (2017). The Day After: Post-Collision Distribution of Remnants, Fragments, and Debris Clouds in the Outer Solar System. In *Lunar and planetary science conference* (p. 2785).
- 12 Meech, K. J., Sorli, K., Kleyna, J., Keane, J., Bauer, J. M., Micheli, M., ... Sahu, D. (2016). Watching a Long Period Comet Turn On - C/2015 ER61 (PANSTARRS). In *Aas/division for planetary sciences meeting abstracts #48* (p. 308.06). AAS/Division for Planetary Sciences Meeting Abstracts.
- 13 Richardson, D. C., Barnouin, O. S., Benner, L. A. M., Bottke, W., Campo Bagatin, A., Cheng, A. F., ... AIDA Dynamical and Physical Properties of Didymos Working Group. (2016). Dynamical and Physical Properties of 65803 Didymos, the Proposed AIDA Mission Target. In *Aas/division for planetary sciences meeting abstracts #48* (p. 123.17). AAS/Division for Planetary Sciences Meeting Abstracts.
- 14 Sarid, G., Stewart, S. T. & Grundy, W. (2016). Let's Dense - Modifying densities and compositions through collisions of Kuiper belt objects. In *Aas/division for planetary sciences meeting abstracts #48* (p. 200.08). AAS/Division for Planetary Sciences Meeting Abstracts.
- 15 Womack, M., Sarid, G. & Wierzchos, K. (2016). Gaseous activity of distant comets. In *Aas/division for planetary sciences meeting abstracts #48* (p. 330.06). AAS/Division for Planetary Sciences Meeting Abstracts.
- 16 Stewart, S. T., Lock, S. J., Petaev, M. I., Jacobsen, S. B., Sarid, G., Leinhardt, Z. M., ... Humayun, M. (2016). Mercury Impact Origin Hypothesis Survives the Volatile Crisis: Implications for Terrestrial Planet Formation. In *Lunar and planetary science conference* (p. 2954).
- 17 Schambeau, C., Fernández, Y., Samarasinha, N. H., Mueller, B. E. A., Sarid, G., Meech, K. J. & Woodney, L. (2016). A Continuing Analysis of Possible Activity Drivers for the Enigmatic Comet 29P/Schwassmann-Wachmann 1. In *American astronomical society meeting abstracts #227* (Vol. 227, p. 141.13). American Astronomical Society Meeting Abstracts.
- 18 Sarid, G. (2015). Internal turmoil of small primitive bodies: rock-water-organic processing as context for Bennu and JU. In *Aas/division for planetary sciences meeting abstracts #47* (p. 307.06). AAS/Division for Planetary Sciences Meeting Abstracts.
- 19 Schambeau, C. A., Fernandez, Y., Samarasinha, N., Sarid, G., Mueller, B., Meech, K. & Woodney, L. (2015). A Continuing Analysis of Possible Activity Drivers for the Enigmatic Comet

29P/Schwassmann–Wachmann 1. In *Aas/division for planetary sciences meeting abstracts #47* (p. 415.22). AAS/Division for Planetary Sciences Meeting Abstracts.

- 20 **Sarid, G.**, Stewart, S. T. & Leinhardt, Z. M. (2015). Aftermath of early Hit-and-Run collisions in the Inner Solar System. In *Iau general assembly* (Vol. 29, p. 2256152).
- 21 **Sarid, G.** & Stewart, S. T. (2015). Black Sheep and White Elephants: Compositions of Survivors from Collisions of Differentiated Ice-Rock Bodies. In *Lunar and planetary science conference* (p. 2834).
- 22 **Sarid, G.** & Stewart–Mukhopadhyay, S. (2014). To melt is not enough: Retention of volatile species through internal processing in icy bodies. In K. Muinonen, A. Penttilä, M. Granvik, A. Virkki, G. Fedorets, O. Wilkman & T. Kohout (Eds.), *Asteroids, comets, meteors 2014* (p. 469).
- 23 **Sarid, G.**, Stewart, S. T. & Leinhardt, Z. M. (2014). Mercury, the Impactor. In *Lunar and planetary science conference* (p. 2723).
- 24 **Sarid, G.**, Brunetto, R., DeMeo, F. E. & Kueppers, M. (2013). The Carbon Did It — Masking Surface Ice Features on Small Distant Bodies. In *Lunar and planetary science conference* (p. 1181).
- 25 **Sarid, G.** & Stewart, S. T. (2013). Hold On to Your Volatiles — Early Preservation In Evolving Icy Planetesimals. In *Lunar and planetary science conference* (p. 1467).
- 26 Meech, K. J., Bauer, J. M., Bhatt, B. C., Fernandez, Y. R., Hainaut, O. R., Kaluna, H., ... Zenn, A. (2012). New Insights into Comet Activity from the EPOXI Mission Campaign and the Spitzer Comet Nucleus Survey. In *Asteroids, comets, meteors 2012* (Vol. 1667, p. 6303).
- 27 **Sarid, G.** (2012). Stories of Pre-Accreted Icy Planetesimals: Internal Evolution and Volatile Delivery. In *Asteroids, comets, meteors 2012* (Vol. 1667, p. 6491).
- 28 Sonnett, S., Meech, K. J. & **Sarid, G.** (2012). Bi-Color Light Curves of Eight Neutral Trans-Neptunian Objects. In *Asteroids, comets, meteors 2012* (Vol. 1667, p. 6429).
- 29 Prrialnik, D., **Sarid, G.**, Meech, K. & Assis, A. (2012). Evolutionary Models of Main Belt Comets. In *American astronomical society meeting abstracts #219* (Vol. 219, p. 432.16). American Astronomical Society Meeting Abstracts.
- 30 Meech, K. J. & **Sarid, G.** (2011). New insights into comet activity from Earth-based observations of the EPOXI mission target, 103P/Hartley 2. In *Epsc-dps joint meeting 2011* (Vol. 2011, p. 410).
- 31 **Sarid, G.** (2011). Early Thermal Evolution of Planetesimals Beyond the Snow Line. In *Epsc-dps joint meeting 2011* (Vol. 2011, p. 1632).
- 32 **Sarid, G.**, Zenn, A. R., Meech, K. J., Farnham, T. L. & Prrialnik, D. (2011). Internally-Driven Dust Activity of Comet 22P/Kopff. In *Epsc-dps joint meeting 2011* (Vol. 2011, p. 1533).
- 33 Sonnett, S., Meech, K. & **Sarid, G.** (2011). Surface Properties of Neutral TNOs. In *Epsc-dps joint meeting 2011* (Vol. 2011, p. 1681).
- 34 Hartwick, V. & **Sarid, G.** (2011). Modeling the Interior Structure of Tempel 1. In *American astronomical society meeting abstracts #217* (Vol. 217, p. 156.04). American Astronomical Society Meeting Abstracts.
- 35 Prrialnik, D., **Sarid, G.** & Meech, K. J. (2010). Survival of ice in Main Belt Comets. In *Aas/division for planetary sciences meeting abstracts #42* (p. 28.01). AAS/Division for Planetary Sciences Meeting Abstracts.

- 36 **Sarid, G.** (2010). Evolution of the Known Centaurs Population – Dynamical and Thermal Pathways. In *Aas/division for planetary sciences meeting abstracts #42* (p. 23.01). AAS/Division for Planetary Sciences Meeting Abstracts.
- 37 Yang, B. & **Sarid, G.** (2010a). Crystalline Water Ice In Outburst Comet P/2010 H2. In *Aas/division for planetary sciences meeting abstracts #42* (p. 5.09). AAS/Division for Planetary Sciences Meeting Abstracts.
- 38 **Sarid, G.** & Prrialnik, D. (2010a). Dynamical and Thermal Pathways in the Evolution of Centaur Objects. In *Astrobiology science conference 2010: Evolution and life: Surviving catastrophes and extremes on earth and beyond* (Vol. 1538, p. 5555).
- 39 **Sarid, G.** & Prrialnik, D. (2010b). Retention of Water and Organic Compounds in the Distant Kuiper Belt. In *Astrobiology science conference 2010: Evolution and life: Surviving catastrophes and extremes on earth and beyond* (Vol. 1538, p. 5539).
- 40 Guilbert, A., Barucci, A., Brunetto, R., Delsanti, A., Merlin, F., Alvarez-Candal, A., ... **Sarid, G.** (2009). A Portrait of Centaur 10199 Chariklo. In *Aas/division for planetary sciences meeting abstracts #41* (p. 65.01). AAS/Division for Planetary Sciences Meeting Abstracts.
- 41 **Sarid, G.** & Prrialnik, D. (2008a). From TNOs to Centaurs: The Thermal Connection. In *Asteroids, comets, meteors 2008* (Vol. 1405, p. 8252).
- 42 **Sarid, G.** & Prrialnik, D. (2008b). Methane and Ice Water Retention in Large KBOs. In *Asteroids, comets, meteors 2008* (Vol. 1405, p. 8254).