

Monday, March 19, 2018
CELEBRATING CASSINI! I
8:30 a.m. Waterway Ballroom 1

[M101]

Chairs: **Amanda Hendrix**
Gianrico Filacchione

- 8:30 a.m. Spilker L. J. * Edgington S. G.
[A Voyage into Unique Territory: Cassini's Grand Finale](#) [#2998]
 Key science findings acquired during Cassini's unique dives between the rings and Saturn (Grand Finale), and during its Ring Grazing orbits are presented.
- 8:45 a.m. Cuzzi J. N. *
[Saturn's Rings After Cassini](#) [#1632]
 Pristine icy beauty / Chaotic destructive dynamics / Born with the dinosaurs / What's not to like?
- 9:00 a.m. Buratti B. J. *
[The Icy Moons of Saturn: What We Know and What We Don't Know After Cassini](#) [#1600]
 This talk is an overview of observations of the icy moons obtained during the last year of the Cassini mission and some of the early results.
- 9:15 a.m. Turtle E. P. * Perry J. E. Barbara J. M. Del Genio A. D. Sotin C. et al.
[Titan Insights During the Final Year of the Cassini Mission](#) [#1656]
 Cassini's last year / With many Titan flybys / Still holds surprises!
- 9:30 a.m. Esposito L. W. *
[Top Ten Discoveries from the Cassini UVIS Investigation](#) [#2456]
 The Cassini UVIS experiment has made significant discoveries about Saturn, Titan, Enceladus, Saturn ring dynamics, and Saturn's ring age.
- 9:45 a.m. Miller K. E. * Waite J. H. Jr. Perryman R. Glein C. R. Perry M. et al.
[Cassini Ion and Neutral Mass Spectrometer Observes Organic Molecules in the Upper Atmosphere of Saturn](#) [#1475]
 Cassini's last ride / Mass spec sees large organics / Raining from the rings!
- 10:00 a.m. Rymer A. * Persoon A. Morooka M. Coates A.
[Are the Enceladus Plumes a Hotbed of Negativity? \(Negative Ion Observations in the Enceladus Plumes Compared with Observations at Titan and Earth\)](#) [#2579]
 Is negative charge/ A positive sign / For icy moons.
- 10:15 a.m. Hayes A. G. * Soderblom J. M. Barnes J. W. Poggiali V. Mastrogiuseppe M.
[Wind, Waves, and Magic Islands at Titan's Largest Sea: Kraken Mare](#) [#2065]
 We present the discovery of Magic Islands and transient rough patches in Titan's largest sea, Kraken Mare. Magic Islands were previously restricted to Ligeia.
- 10:30 a.m. Neveu M. * Rhoden A. R.
[Evolution of Saturn's Mid-Sized Moons](#) [#1163]
 Orbital models / Coupled with geophysics / Explain Saturn's moons.
- 10:45 a.m. Rhoden A. R. * Hurford T. A. Spitale J. N. Henning W. G. Huff E. M.
[The Role of Tides in Forming the Tiger Stripe Fractures on Enceladus](#) [#3003]
 Enceladus fails / Are tides the culprit, we ask / Maybe in thin ice.

- 11:00 a.m. Martin E. S. * Whitten J. L.
[Using Icelandic Pit Chains to Constrain Regolith Thickness on Saturn's Moon Enceladus](#) [#2209]
Snow falling on ice / Enceladus is covered / Earth's landscape will help.
- 11:15 a.m. Rivera-Valentín E. G. * Kirchoff M. R. Dalle Ore C. M. Rodriguez Sanchez-Vahamonde C.
[Constraints on Crater Ages on Rhea from Cassini VIMS and ISS: Insights to the Recent Crater Flux](#) [#2812]
Icy moons of ice / With phases changed by craters? / Only time will tell.
- 11:30 a.m. Porco C. * Mitchell C. Nimmo F. Tiscareno M.
[Enceladus' Plume Temporal Variability from Analysis of Cassini ISS Images](#) [#2003]
We examine the variability in the brightness of the Enceladus plume using the final set of plume ISS images taken over the course of the entire Cassini mission.