

Curriculum Vitae

Brother Guy Joseph Consolmagno SJ
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Born in Detroit, Michigan, USA; American citizen

Entered Society of Jesus, August 16, 1989

DEGREES RECEIVED

SB Earth and Planetary Sciences, Massachusetts Institute of Technology, 1974

SM Earth and Planetary Sciences, Massachusetts Institute of Technology, 1975

Thesis: Thermal History Models of Icy Satellites

Advisor: John S. Lewis

Ph D Planetary Sciences, University of Arizona, 1978

Dissertation: Electromagnetic Processes in the Evolution of the Solar Nebula

Advisor: J. R. Jokipii

FURTHER EDUCATION

Special Student (Graduate), Philosophy Department, Loyola University Chicago, 1991–1993

Returning Scholar Program, Physics Department, University of Chicago, 1991–1992

PROFESSIONAL SCIENTIFIC POSITIONS HELD SINCE PH. D.

Astronomer; Curator of Meteorites Specola Vaticana V-00120 Vatican City State <i>also affiliated with:</i> Vatican Observatory Research Group Steward Observatory, University of Arizona Tucson, AZ 85721	1991–present (Adjunct, 1991–1993)
Loyola Chair (Visiting Jesuit Scholar) Fordham University Bronx, NY 10458 - 9993	Fall 2006 - Spring 2007
MacLean Chair (Visiting Jesuit Scholar) St. Joseph's University Philadelphia, PA 19131	Spring 2000
Lecturer Department of Natural Sciences Loyola University Chicago Chicago, IL 60626	1992–1993
Adjunct Professor Physics Department Loyola College in Maryland Baltimore, MD 21210	Spring 1991; Summer 1992
Visiting Scientist Goddard Space Flight Center, Code 921	Summer 1990; Spring 1991; Summer 1992

Assistant Professor Physics Department Lafayette College Easton PA 18042	1985–1989
US Peace Corps Volunteer Lecturer Physics Department University of Nairobi Nairobi, Kenya, East Africa	1983–1985
Physics Instructor Starehe Boys Centre Nairobi, Kenya, East Africa	
Postdoctoral Associate	1980–1982
Lecturer	Spring 1982, 1983
Visiting Scientist Department of Earth and Planetary Sciences Massachusetts Institute of Technology Cambridge, MA 02139	September 1984
Lecturer Department of Astronomy Harvard University Cambridge, MA 02138	1979–1980
Postdoctoral Research Fellow Harvard/Smithsonian Center for Astrophysics Cambridge, MA 02138	1978–1979

OTHER PROFESSIONAL ACTIVITIES

Member, International Astronomical Union	1994–present
Secretary, Division III	2000-present
Working Group Member, Small Planet Definition	2004-2005
Planetary System Nomenclature	2003-2006
Commission 16 (Planets and Satellites): President	2003-2006
Organizing Committee Member	1994–present
Secretary	2000–2003
Member, Meteoritical Society	1994–present
Chair, Annual Meeting (Vatican City)	2001
Council Member	2003–2006
Member, American Astronomical Society, Division for Planetary Sciences	1994–present
Chair	2006-2007
Vice Chair	2005-2006
DPS Committee Member	2000–2003
Member, Geological Society of America	1997–present
Director, McKelvy Honors Program; Faculty Resident, McKelvy House, Lafayette College	1986–1989

Recent Papers and Publications

Consolmagno G. J., Britt D. T. and Macke R. J. (2008). The significance of meteorite density and porosity. (Invited Review) *Chemie der Erde* **68**, 1–29.

Tegler S. C., Grundy W. M., Vilas F., Romanishin W., Cornelison D. and Consolmagno G. J. (2008). Evidence of N₂ -Ice On the Surface of the Icy Dwarf Planet 136472 (2005 FY9). *Icarus*, **195**, 844-850.

Alexander C., Consolmagno G., Greeley R., and Morrison D. (2008). The exploration history of Europa. *Europa* (Robert Pappalardo, William McKinnon, and Krishan Khurana, eds.) Univ. of Arizona Press, Tucson, in press.

Rochette P., Gattacceca J., Bonal L., Bourot-Denise M., Chevrier V., Clerc J.-P., Consolmagno G., Folco L., Gounelle M., Kohout T., Pesonen L., Quirico E., Sagnotti L., and Skripnik A. (2008) Magnetic Classification of Stony Meteorites: 2. Non-Ordinary Chondrites. *Meteorit. Planet. Sci.*, in press.

Research: Dr. Consolmagno studies the nature and evolution of small bodies in the solar system. His work in the 1970's on the moons of the outer solar system predicted many of the features later discovered by the Voyager and Galileo spacecraft, including the first published suggestion of European sub-crustal oceans with the possibility of life. Models for the geochemical evolution of lunar basalts and basaltic meteorites eventually led to the identification, on geochemical grounds, of asteroid Vesta as the parent body of the eucrite, diogenite, and howardite meteorites.

His doctoral thesis on the role of electromagnetic forces in chemical fractionations of the early solar system pioneered the field of gravito-electrodynamics, the behavior of dust subjected to both gravitational and electromagnetic forces, and he was the first person to apply this concept to describe the dynamics of Jupiter's dust ring.

Geophysical research in the late 1980's to mid-1990's included mapping tectonic features on the surfaces of outer planet icy satellites to correlate the orientation of these features with possible internal stresses, and applying electromagnetic theory to the problem of detecting an ocean brine under the ice crust of Europa. He was also part of the world-wide campaigns to observe the impact of Comet Shoemaker-Levy 9 into Jupiter and mutual events during the Saturn ring plane crossing.

Present research is centered on understanding the origin of moons, meteorites, asteroids, and Trans-Neptunian Objects (TNO's). One continuing project is measuring the density and porosity of meteorites, with applications to understanding the lithification of meteorites, the structure of their asteroidal parent bodies, and the nature of their terrestrial weathering. He is also involved in telescope observations of asteroid spectra and the broad band colors of the irregular moons of the outer solar system, dormant comets, and TNO's.

Publications

Refereed Journal Papers:

1. Drake M. J. and Consolmagno G. J. (1976). Critical review of models for the evolution of high-Ti mare basalts. In *Proc. Lunar Sci. Conf.* 7, pp.1633–1655. Pergamon Press, NY
2. Consolmagno G. J. and Drake M. J. (1976). Equivalence of equations describing trace element distribution during equilibrium partial melting. *Geochim. Cosmochim. Acta* **40**, 1421–1422.
3. Consolmagno G. J. and Lewis J. S. (1976). Structural and thermal models of icy Galilean satellites. In *Jupiter* (T. Gehrels, ed.), pp. 1035–1051. Univ. of Arizona Press, Tucson.
4. Consolmagno G. J. and Drake M. J. (1977). Composition and evolution of the eucrite parent body: evidence from rare earth elements. *Geochim. Cosmochim. Acta* **41**, 1271–1282.
5. Consolmagno G. J. and Lewis J. S. (1977). Preliminary thermal history models of icy satellites. In *Planetary Satellites* (J. Burns, ed.), pp. 492–500. Univ. of Arizona Press, Tucson.
6. Consolmagno G. J. and Jokipii J. R. (1978). ^{26}Al and the partial ionization of the solar nebula. *Moon Planets* **19**, 253–259.
7. Consolmagno G. J. and Lewis J. S. (1978). The evolution of icy satellite interiors and surfaces. *Icarus* **34**, 280–293.
8. Consolmagno G. J. (1979). Lorentz scattering of interplanetary dust. *Icarus* **38**, 398–410.
9. Consolmagno G. J. (1979). REE patterns versus the origin of the basaltic achondrites. *Icarus* **40**, 522–530.
10. Consolmagno G. J. (1979). Sulfur volcanoes on Io. *Science* **205**, 397–398.
11. Consolmagno G. J. (1980). Electromagnetic scattering lifetimes for dust in Jupiter's ring. *Nature* **285**, 557–558.
12. Consolmagno G. J. (1980). Influence of the interplanetary magnetic field on cometary and primordial dust orbits; applications of Lorentz scattering. *Icarus* **43**, 203–214.
13. Consolmagno G. J. and Cameron A. G. W. (1980). The origin of the "FUN" anomalies and the high temperature inclusions in the Allende meteorite. *Moon Planets* **23**, 3–25.
14. Consolmagno G. J. (1981). An Io thermal model with intermittent volcanism. *Proc. Lunar Planet. Sci. Conf.* **12B**, pp. 1533–1542.
15. Consolmagno G. J. (1981). Io: thermal models and chemical evolution. *Icarus* **47**, 36–45.

16. Wood, J.A., Anders E. , Anderson D.L. , Consolmagno G. , Fanale F. , Johnston D. , Kaula W.M., Lewis J. ,Morgan J. , Ringwood A.E. , Stolper E.M. , Toksöz M.N. , Turekian K.K., Wänke H. and Weidenschilling S. J. (1981). Mantles of the terrestrial planets. *Basaltic Volcanism Study Project Chapter 4*, Pergamon Press.
17. Consolmagno G. J. (1983). Ice-rich moons and the physical properties of ice. *J. Phys. Chem.* **87**, 4204–4208.
18. Consolmagno G. J. (1983). Lorentz forces on the dust in Jupiter's ring. *J. Geophys. Res.* **88**, 5607–5612.
19. Pollack J. B. and Consolmagno G. J. (1984). Origin and evolution of the Saturn system. In *Saturn* (T. Gehrels, ed.), pp. 811–866. Univ. of Arizona Press, Tucson.
20. Consolmagno G. J. (1985). Resurfacing Saturn's satellites: models of partial differentiation and expansion. *Icarus* **64**, 401–413.
21. Lebofsky L. A., Jones T. D., Owensby P. D., Feierberg M. A. and Consolmagno G. J. (1990). The nature of low albedo asteroids from 3- μ m spectrophotometry. *Icarus* **83**, 16–26.
22. Consolmagno G. J. and Menard G. (1995). A search for variations in the light curves of Io and Europa during the impact of Comet SL9: A, H, and Q events. *Geophys. Res. Lett.* **22**, 1633–1636.
23. Hogenboom D.L., Kargel J.S., Consolmagno G. J., Holden T.C., Lee L. and Buyyounouski M. (1997). The ammonia–water system and the chemical differentiation of icy satellites. *Icarus* **128**, 171–180.
24. Nyffenegger P., Davis D. M. and Consolmagno G. J. (1997). Tectonic lineations and frictional faulting on a relatively simple body (Ariel). *Planet. Space Sci.* **45**, 1069–1080.
25. Consolmagno G. J., Britt D. T. and Stoll, C. P. (1998). The porosities of ordinary chondrites: models and interpretation. *Meteorit. Planet. Sci.* **33**, 1221–1230.
26. Consolmagno G. J. and Britt, D. T. (1998). The density and porosity of meteorites from the Vatican collection. *Meteorit. Planet. Sci.* **33**, 1231–1242.
27. Kring D. A., Hill D. H., Gleason J. D., Britt D. T., Consolmagno G. J., Farmer M., Wilson S. and Haag R. (1999). Portales Valley: A meteoritic sample of the brecciated and metal-veined floor of an impact crater on an H-chondrite asteroid. *Meteorit. Planet. Sci.*, **34**, 663-669.
28. Britt D. T. and Consolmagno G. J. (2000). The porosity of dark meteorites and the structure of low-albedo asteroids. *Icarus* **146**, 213-219.
29. Britt D. T. and Consolmagno G. J. (2001). Modeling the structure of high porosity asteroids. *Icarus* **152**, 134-139.

30. Consolmagno G. J. (2001). Apollo samples and the geochemical determination of basaltic achondrite parent bodies. *Earth Moon Planets* **85**, 115-125.
31. Romanishin W., Tegler S. C., Rettig T. W., Consolmagno G. and Botthof B. (2001). 1998SM₁₆₅: A large Kuiper belt object with an irregular shape. *Proc. Nat. Acad. Sci.* **98**, 11863-11866.
32. Rettig T. W., Walsh K. and Consolmagno G. J. (2001). Implied evolutionary differences of the jovian irregular satellites from a BVR color survey. *Icarus* **154**, 313-320.
33. Rochette P., Sagnotti L., Consolmagno G., Folco L., Maras A., Panzarino F., Pesonen L., Serra R. and Terho M. (2001). A database of magnetic susceptibility of stony meteorites. *Quaderni di Geofisica* **18**, 30pp.
34. Magri C., Consolmagno G. J., Ostro S. J., Benner L. A. M. and Beeny B. R. (2001). Radar constraints on asteroid regolith properties using 433 Eros as ground truth. *Meteorit. Planet. Sci.*, **36**, 1697-1709.
35. Britt D. T., Yeomans D. K., Housen K. R. and Consolmagno G. J. (2002). Asteroid Porosity and Structure. *Asteroids III* (W. Bottke and R. Binzel, eds.), Univ. of Arizona Press, Tucson; pp 485-500.
36. Rochette P., Sagnotti L., Consolmagno G., Denise M., Folco L., Osete M. and Pesonen L. (2003). Magnetic classification of stony meteorites: 1. Ordinary chondrites. *Meteorit. Planet. Sci.*, **38**, 251-268.
37. Britt, D. T. and Consolmagno G. J. (2003). Stony meteorite porosities and densities: a review of the data through 2001. *Meteorit. Planet. Sci.*, **38**, 1161-1180.
38. Tegler S. C., Romanishin W. and Consolmagno G. J. (2003). A primordial origin for the colors of Kuiper Belt Objects. *Ap. J. Lett.*, **599**, L49-52.
39. Consolmagno G. J. and Britt D. T. (2004). Meteoritical evidence and constraints on impacts and disruption. *Planet. Space Sci.* **52**, 1119-1128.
40. Tegler S. C., Romanishin W., Consolmagno G. J., Rall J., Worhatch R., Nelson M. and Weidenschilling S. J. (2005). The period of rotation, shape, density, and homogeneous surface color of the Centaur 5145 Pholus. *Icarus* **175**, 390-396.
41. Gattacceca J., Rochette P., Denise M., Consolmagno G., Folco L., Zanda B. (2005). An impact origin for the foliation of chondrites. *Earth Planet. Sci. Lett.* **234**, 351-368.
42. Consolmagno G. J., Macke R. J., Rochette P., Britt D. T. and Gattacceca J. (2006). Density, magnetic susceptibility, and the characterization of ordinary chondrite falls and showers. *Meteorit. Planet. Sci.*, **41**, 331-342.

43. Tegler S. C., Grundy W. M., Romanishin W., Consolmagno G. J., Mogren K., and Vilas F. (2007) Optical Spectroscopy of the Large Kuiper Belt Objects 2005 FY9 and 2003 EL61, *Astronom. J.* **133**, 526-530.
44. Seidelmann P. K., Archinal B. A., A'hearn M. F., Conrad A., Consolmagno, G. J., Hestroffer D., Hilton J. L., Krasinsky G. A., Neumann G., Oberst J., Stooke P., Tedesco E. F., Tholen D.J., Thomas P. C., and Williams I. P. (2007) Report of the IAU/IAG Working Group on cartographic coordinates and rotational elements: 2006 *Celestial Mech. Dyn. Astr.*, **98**, 155-180.
45. Consolmagno G. J., Britt D. T. and Macke R. J. (2008). The significance of meteorite density and porosity. (Invited Review). *Chemie der Erde* **68**, 1–29.
46. Tegler S. C., Grundy W. M., Vilas F., Romanishin W., Cornelison D. and Consolmagno G. J. (2008). Evidence of N₂ -Ice On the Surface of the Icy Dwarf Planet 136472 (2005 FY9). *Icarus*, **195**, 844-850.
47. Rochette P., Gattacceca J., Bonal L., Bourot-Denise M., Chevrier V., Clerc J.-P., Consolmagno G., Folco L., Gounelle M., Kohout T., Pesonen L., Quirico E., Sagnotti L., and Skripnik A. (2008) Magnetic Classification of Stony Meteorites: 2. Non-Ordinary Chondrites. *Meteorit. Planet. Sci.*, in press.
48. Alexander C., Carlson R., Consolmagno G., Greeley R., and Morrison D. (2008). The exploration history of Europa. In *Europa* (Robert Pappalardo, William McKinnon, and Krishan Khurana, eds.) Univ. of Arizona Press, Tucson, in press.

Meeting Presentations, Abstracts and Extended Abstracts:

1. Drake M. J. and Consolmagno G. J. (1975) Modelling the two stage evolution of REE abundance patterns in high Ti mare basalt liquids. *Proc. Conference on Origin of Mare Basalts and Their Implications for Lunar Evolution*, pp. 40–43.
2. Drake M. J. and Consolmagno G. J. (1976). Evolution of the REE abundances in high-Ti mare basalts: Problems with total melting and equilibrium partial melting and a possible solution with fractional partial melting. *Lunar Science VII*, 205–207.
3. Consolmagno G. J. and Drake M. J. (1976). Geochemical evolution of eucrites: composition of the eucrite parent body. *Meteoritics* **11**, 265–266.
4. Drake M. J. and Consolmagno G. J. (1977). Asteroid 4 Vesta: possible bulk composition deduced from geochemistry of eucrites. *Lunar Science VIII*, 248–250.
5. Consolmagno G. J. and Lewis J. S. (1977). Evolution of icy satellites. *Bull. AAS* **9**, 464–465.
6. Consolmagno G. J. (1977). The magnetic Reynolds number of the solar nebula. *Meteoritics* **12**, 200.
7. Consolmagno G. J. and Jokipii J. R. (1977). Lorentz scattering of interplanetary dust. *Bull. AAS* **9**, 519–520.
8. Consolmagno G. J. (1978). Lorentz scattering and fractionation of interplanetary dust. *Meteoritics* **13**, 428–429.
9. Consolmagno G. J. (1979). What if ^{26}Al ionized the solar nebula? *Bull. AAS* **10**, 590–591.
10. Consolmagno G. J. and Cameron A. G. W. (1979). The nucleosynthesis components of isotopic anomalies in Allende inclusion. *Lunar Planet. Science X*, 235–237.
11. Consolmagno G. J. and Lewis J. S. (1979). The evolution of Io. *Bull. AAS* **11**, 599.
12. Lewis J. S. and Consolmagno G. J. (1979). Io: geochemistry and geophysics of sulfur. *Bull. AAS* **11**, 599.
13. Consolmagno G. J. and Lewis J. S. (1980). The chemical–thermal evolution of Io. *Proc. IAU Coll. 57, the Satellites of Jupiter*.
14. Consolmagno G. J. (1980). Electromagnetic scattering of Jupiter ring particles. *Proc. IAU Coll. 57, the Satellites of Jupiter*.
15. Consolmagno G. J. (1981). An Io thermal model with intermittent volcanism. *Lunar Planet. Science XII*, pp. 175–177.
16. Consolmagno G. J., Harrigan J. M. and Buck W. R. (1981). Can a geophysically reasonable moon make mare basalts? *Lunar Planet. Science XII*, 178–180.

17. Dyar M. D. and Consolmagno G. J. (1982). Ferric iron in lunar glasses and the interpretation of lunar spectra. *Lunar Planet. Science XIII*, 193–194.
18. Feigelson E. D. and Consolmagno G. J. (1982). X–ray emission from young solar–type stars: Implications for the early solar system. *Lunar Planet. Science XIII*, 213–214.
19. Consolmagno G. J. (1982). Lorentz forces on the dust in Jupiter's ring. *Lunar Planet. Science XIII*, 127–128.
20. Consolmagno G. J. and Dyar M. D. (1982). Unsampled mare basalts and the evolution of the moon. *Lunar Planet. Science XIII*, 129–130.
21. Consolmagno G. J. and Lewis J. S. (1982). Current problems and future data requirements in the study of ice–rich planetary interiors. *Abstracts, VI International Symposium, Physics and Chemistry of Ice*, 130–131.
22. Consolmagno G. J. (1983). Thermal models of Saturn's moons and an origin for their tectonic features. *EOS (Trans. AGU)* **64**, 257.
23. Consolmagno G. J. (1987). Models for Uranian moon expansion: Why isn't Oberon cracked? *EOS (Trans. AGU)* **68**, 344–345.
24. Dalrymple III W., Hogenboom D. L. and Consolmagno G. J. (1988). The density of ammonia–water solution to 400 MPa (4 kilobars). *Lunar Planet. Science IXX*, 241–242.
25. Nyffenegger P. A. and Consolmagno G. J. (1988). Tectonic episodes on Ariel: Evidence for an ancient thin crust. *Lunar and Planetary Science IXX*, pp. 873–874. The Lunar and Planetary Institute, Houston.
26. Nyffenegger P. A. and Consolmagno G. J. (1988). The expansion history of Ariel: Observations and theory. *EOS (Trans. AGU)* **69**, 391.
27. Consolmagno G. J. (1988). Randomness and chaos in ring dust orbits. *Third Annual Workshop on the Physics of Dusty Plasmas*, University of Kansas, October, 1988.
28. Hogenboom D. L., Winebrake J., Consolmagno G. J. and Dalrymple III W. (1989). Preliminary densities and phase diagram of the water/NH₃ system at P–T conditions relevant to the icy moons of the outer planets. *Lunar Planet. Science XX*, 420–421.
29. Nyffenegger P. A. and Consolmagno G. J. (1989). Tectonic features on Ariel: evidence for collapse of a tidal bulge. *Lunar Planet. Science XX*, 796–797.
30. Nyffenegger P. A., Davis D. M. and Consolmagno G. J. (1990). Orientations of linear features on Ariel relative to predicted stresses. *EOS (Trans. AGU)* **71**, 551 (Supplement).
31. Consolmagno G. J. and Rice R. T. (1991). Do Magnetic Resonances Shape Major Planetary Rings? *EOS (Trans. AGU)* **72**, 183 (Supplement).

32. Nyffenegger P. A., Davis D. M. and Consolmagno G. J. (1991). Stress patterns, tidal flexure, and the strength of Ariel's lithosphere. *EOS (Trans. AGU)* **72**, 184.
33. Consolmagno G. J. (1994). What do thermal models tell us about the icy Galilean moons? *Icy Galilean Satellites Conference*, San Juan Capistrano, Feb 1–4, 1994.
34. Consolmagno G. J., Davis D. M. and Nyffenegger P. (1994). Has the tidal bulge on Ariel shifted in longitude? *Lunar Planet. Science XXV*, 285–286.
35. Consolmagno G. J. (1994). Effect of an insulating surface on Ganymede's thermal history. *Bull. AAS* **26**, 1161.
36. Consolmagno G. J. (1995). Astronomy, science fiction, and the popular culture: 1277 to 2001 (and beyond). (Abstract). *Vistas in Astronomy* **39**, 717.
37. Consolmagno G. J., Menard G. and Stoll C. P. (1995). Possible light echoes during the SL/9 A, H, and Q impacts. *Lunar Planet. Science XXVI*, 273–274.
38. Consolmagno G. J. and Menard G. (1995). A Search For Light Echoes of A, H, and Q Events. European SL–9/Jupiter Workshop, Garching, 13–15 February 1995, R.M. West and H. Boehnhardt (eds.), Garching: *European Southern Observatory Conference and Workshop Proceedings* no. **52**, pp. 93–94.
39. Consolmagno G. J. and Davis D. M. (1995). Icy satellites as natural laboratories for geophysical processes. *Solar System Ices Abstracts* (27–30 March 1995, Toulouse), 23.
40. Consolmagno G. J. and Britt D. T. (1995). Bulk densities of meteorites in the Vatican collection and implications for the S–asteroid controversy. *Meteoritics* **30**, 500.
41. Britt D. T., Kring D. A., Consolmagno G. J. and Bell, J. F. (1995). The problem with porosity. *Bull. AAS* **27**, 1062.
42. Consolmagno G. J., Riccioli D., Blanco C., Leto G. and A'Hearn M. (1995). A possible impact between the Shoemaker–Levy Q1 and Q2 events? More evidence for (and against). *Bull. AAS* **27**, 1113–1114.
43. Consolmagno G. J. and Davis D. M. (1995). Linear Features on Enceladus: Clues to Its Tectonics? *EOS (Trans. AGU)* **76**, 332.
44. Hubbard W. B., Consolmagno G. J., Boyle R. P. and Hill, R. (1996). The shadow of Titan on Mimas and Saturn's rings. *Lunar Science XXVII*, 569–570.
45. Kargel J. S. and Consolmagno G. J. (1996). Magnetic fields and the detectability of brine oceans in Jupiter's icy satellites. *Lunar Planet. Science XXVII*, 643–644.
46. McGuire J. C., Davis D. M. and Consolmagno G. J. (1996). Crossing fractures and the strength of Venus crustal rocks. *Lunar Planet. Science XXVII*, 847–848.

47. Consolmagno G. J. (1996). Why were light echoes of the impact bolides so hard to see? *Conference Internationale sur la Collision SL9–Jupiter*, Abstracts (3–5 July 1996, Observatoire de Paris, Meudon), p. I–11.
48. Consolmagno G. J. and Britt D. T. (1996). The porosity of meteorites and the meteorite–asteroid connection. *Résumés des communications présentées à la Conférence Internationale sur les Astéroïdes, Comètes et Météores* (8–12 July 1996, Versailles), p. 85.
49. Britt D. T. and Consolmagno G. J. (1996). Estimating porosities from bulk densities. *Meteorit. Planet. Sci.* **31**, A22.
50. Consolmagno G. J. and Britt D. T. (1996). Density and porosity measurements of the Vatican meteorite collection. *Meteorit. Planet. Sci.* **31**, A31–A32.
51. Consolmagno G. J. (1996). Meteorites and the origin of the solar system. *Program and Abstracts, Geological Society of America Annual Meeting*, A174.
52. Consolmagno G. J. (1996). Cosmogonic implications of the HED–Vesta connection. In *Workshop on Igneous Asteroids: Focus on Vesta and the HED Meteorites* (Mittlefehldt D. W. and Papike J.J., eds, LPI Tech Rpt. 96–02, Part 1, Lunar and Planetary Institute, Houston, p. 6.
53. Consolmagno G. J., Hubbard W. B., Hill R. and Boyle R. P. (1996). The orbit of Mimas through Titan’s shadow. *Bull. AAS* **28**, 1073.
54. Britt D. T. and Consolmagno G. J. (1996). The porosity of asteroids and meteorites: first results from the Vatican collection. *Bull. AAS* **28**, 1106.
55. Britt D. T. and Consolmagno G. J. (1997). The porosity of asteroids and meteorites: results from the Vatican collection of meteorites. *Lunar Planet Science XXVIII*, 159–160.
56. Consolmagno G. J., Bland P. A., Berry F. J., Pillinger C. T. and Britt D. T. (1997). Porosity in asteroids, weathering on Earth: clues in meteorites. *EOS (Trans. AGU)*.
57. Consolmagno G. J., Britt D. T. and Stoll, C. P. (1997). Model porosities of chondrites and the nature of asteroidal material. *Meteorit. Planet. Sci.* **32**, A31–A32.
58. Soto A., Berinde S., Biscaya A., Bongiovanni A, Dayanand S., Galligan D., Garaj S., Lederer S., Okpala K, Pavlov A., Poirier S., Sankarankutty S., Steren G., Toth J., van Zyl L. and Consolmagno G. J. (1997). Meteorite bulk density measurements: a test of the glass bead immersion method. *Bull. AAS* **29**, 1116.
59. Britt D. T. and Consolmagno G. J. (1998). Dark asteroids and dark meteorite densities. *Lunar Planet Science XXIX*, 1577–1578.
60. Consolmagno G. J. and Britt D. T. (1998). Ordinary chondrite model porosities and the structure of asteroids. *Lunar Planet Science XXIX*, 1730–1731.

61. Consolmagno G. J., Britt D. T. and Stoll C. P. (1998). Metamorphism, shock, and porosity: Why are there meteorites? *Meteorit. Planet. Sci.* **33**, A22–A23.
62. Consolmagno G. J., Pesonen L. J., Britt D. T., Flynn G. J., Klock W., Kuoppamki K., Moore L. B. and Terho M. (1998). Densities and porosities of meteorites and IDP's: implications for asteroids. *Bull. AAS* **30**, 1026.
63. Consolmagno G. J. and Britt D. T. (1999). Turning meteorites into rock: constraints on asteroid physical evolution. *Lunar Planet Science XXX*, abstract #1137.
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