COUSTENIS Athéna
Directeur de Recherche CNRS, DR1
Laboratoire d'Etudes Spatiales et d'Instrumentation en Astrophysique (LESIA)
UMR8109
Observatoire de Paris-Meudon
92195 Meudon Cedex
FRANCE

List of publications and communications

PhD Thesis

- **Coustenis, A.,** 1989. L'atmosphère de Titan à partir des observations infrarouges de Voyager. Doctorat de l'Université Paris 7, defenced on 17 May1989.

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58. **Coustenis, A., Hirtzig, M., Bampasidis, G., Solomonidou, A., Bratsolis, E., Kyriakopoulos, K., Moussas, X., Preka-Papadema, P.,** 2011. Exploring the satellites of the outer planets with in situ elements. Proceedings of the International Conference on Space Technology, 15-17 September, Athens, Greece.
59. **Bampasidis, G., Solomonidou, A., Bratsolis, E., Kyriakopoulos, K., Moussas, X., Preka-Papadema, P., Hirtzig, M., Coustenis, A.,** 2011. Seismometers on the Satellites of the Outer Solar System. Proceedings of the International Conference on Space Technology, 15-17 September, Athens, Greece.
60. **Bampasidis, G., Solomonidou, A., Bratsolis, E., Kyriakopoulos, K., Moussas, X., Preka-Papadema, P., Hirtzig, M., Coustenis, A.,** 2011. Sounding the interior of Titan's lakes by using Micro-Electro-Mechanical Systems (MEMS). Proceedings of the International Conference on Space Technology, 15-17 September, Athens, Greece.
61. **McNutt, R. L., Jr, Coustenis, A.,** 2012. Exploration of the Solar System : fact and fancy. 63rd International Astronautical Congress, Naples, Italy, 1-5 October, IAC-12-D3.1.7.
62. **Swinyard, B., Tinetti, G., Eccleston, P, Adriani, A., Beaulieu, J-P., Belenguer Davila, T., Bowles, N., Bryson, I., Coudé du Foresto, V., Ferlet, M., Hartogh, P., Lagage, P.-O., Lim, T., Malaguti, G., López-Morales, M., Micela, G., Morgante, G., Nørgaard-Nielsen, H.-U., Ollivier, M., Pace, E., Pascale, E., Piccioni, G., Ramos Zapata, G., Reess, J.-M., Ribas, I., Sozzetti, A., Tennyson, J., Tessenyi, M., Swain, M., R., Winter, B., Waldmann, I., Wright, G., Zapatero Osorio, M.-R., Coustenis, A.,** 2012. An integrated payload design for the Exoplanet Characterisation Observatory (EChO). Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave. Proceedings of the SPIE, Volume 8442, id. 84421G-84421G-14 (2012).
63. **Coustenis, A., Atreya, S., Castillo, J., Coll, P., Mueller-Wodarg, I., Spilker, L.,** 2012. Surfaces, atmospheres and magnetospheres of the outer planets and their satellites and ring systems: Part VII. *Plan. Space Sci.* **61**, 1-2.
64. **Coustenis, A., Raulin, F., Bampasidis, G., Solomonidou, A.,** 2012. Life in the Saturnian neighborhood. In *Life on Earth and Other Planetary Bodies*, Series : "Cellular Origin, Life in Extreme Habitats and Astrobiology", Hansimeier, A., Kempe, S., Seckbach, J. (Eds.), Springer, ISBN: 78-94-007-4965-8, Volume 24, 485-522 (Chapter).
65. **Coustenis, A., Blanc, M.,** 2012. Large habitable moons: Titan and Europa. In *Frontiers of Astrobiology*, C. Impey, J. Lunine, J. Funes, eds, Cambridge Univ. Press, pp. 175-200 (Chapter),
66. **Mitri, G., Orosei, R., Hayes, A., Coustenis, A., Fanchini, G., Khurana, K., Lebreton, J.-P., Lopes, R., Lorenz, R., Iess, L., Meriggiola, R., Moriconi, M.-L., Sotin, Ch., Stofan, E., Tokano, T., Tosi, F., et al.,** 2013. The Exploration of Titan with an Orbiter and a Lake-Probe. *A White paper in Response to ESA's Call for Science themes for L2-L3 missions* (http://sci.esa.int/white-papers-2013/), July 2013.
67. **Mousis, O., Fletcher, L. N., Altwegg, K., André, N., Blanc, M., Coustenis, A., Gautier, D., Geppert, W. D., Guillot, T., Irwin, P., Lebreton, J-P., Marty, B., Morse, A., Murray, C., Sanchez-Lavega, A., Petit, J-M., Schmider, F.-X., Waite, H., Wurz, P., et al.,** 2013. In situ exploration of the Giant Planets and an Entry Probe Concept for Saturn. *A White paper in Response to ESA's Call for Science themes for L2-L3 missions* (http://sci.esa.int/white-papers-2013/), July 2013.
68. **Coustenis, A., Atreya, S., Castillo, J., Coll, P., Mueller-Wodarg, I., Spilker, L.,** 2013. Preface to the special issue of PSS on "Surfaces and atmospheres of the outer planets, their satellites and ring systems: Part VIIII". *Plan. Space Sci.* **77**, 1665-1666.
69. **Coustenis, A., Atreya, S., Castillo, J., Coll, P., Mueller-Wodarg, I., Spilker, L.,** 2013. Preface to the special issue of PSS on "Surfaces and atmospheres of the outer planets, their satellites and ring systems: Part IX". *Plan. Space Sci.* **88**, 1-2.
70. **Tobie, G., Teanby, N., Coustenis, A., Jaumann, R., Schmidt, J., Raulin, F., et al.,** 2013. Future exploration of Titan and Enceladus. *A White paper in Response to ESA's Call for Science themes for L2-L3 missions* (http://sci.esa.int/white-papers-2013/), July 2013.
71. **Coustenis, A., Atreya, S., Castillo, J., Coll, P., Mueller-Wodarg, I., Spilker, L.,** 2014. Preface to the special issue of PSS on "Surfaces and atmospheres of the outer planets, their satellites and ring systems: Part X". *Plan. Space Sci.* **104**, 1-2.

Invited talks/keynotes/conferences

1. **Coustenis, A.,** 1990. Titan's atmosphere from the Voyager Infrared Observations: parallels and differences with the primitive Earth. *Bioastronomy '90*, Val Cenis, Savoie, 18-23 June.
2. **Coustenis, A.,** 1991. Titan's thermal infrared spectrum: from Voyager to ISO and CASSINI observations. Invited seminar. Workshop *Infrared Astronomy with ISO*, Les Houches, France, 13-27 June.
3. **Coustenis, A.,** 1992. Titan's atmosphere from Voyager infrared observations and modelling of the Cassini mission. Invited seminar à l'Institut d'Astrophysique d'Andalucie, Grenade (Spain), 23 January.
4. **Coustenis, A.,** 1992. Titan's atmosphere: a model for the Huygens/Cassini mission HASI instrument preparation. Invited seminar. Institut d'Astrophysique de Rome, Italy, 3 July.
5. **Coustenis, A.,** 1993. Titan's atmosphere: temperature and composition from Voyager 1 infrared spectra and future exploration of the satellite. *1st Panhellenic Astronomical Colloquium*. Athens, Greece, 21-23 September 1992.
6. **Coustenis, A.,** 1993. Titan's exploration. *2nd Colloquium for Research in Astrophysics in Greece*, Xanthi, Greece, 26-29 April.
7. **Coustenis, A.,** 1994. The atmosphere of Titan from infrared observations. RAS/EAS European and National Astronomy Meeting (ENAM94). Edinburgh, U.K., 5-8 April.
8. **Coustenis, A.,** 1996. Titan's atmosphere and surface from infrared spectroscopy and imagery. 31st *COSPAR Assembly*, Birmingham, UK, 14-21 July.
9. **Coustenis, A.,** 1996. Observations of Titan from ground-based and spatial observatories. *The Cassini-Huygens Mission: the exploration of the Saturn System*. Bologna, Italy, 19-22 November.
10. **Coustenis, A.,** 1997. Titan's atmosphere and surface from ground-based and ISO observations. Invited seminar. *ESTEC*. Noordwijk, The Netherlands, 14 February.
11. **Combes, M.**, **Coustenis, A.,** 1997. Titan's surface from adaptive optics imaging. 22nd General Assembly of the *European Geophysical Society*, Vienna, 21-25 April.
12. **Fulchignoni, M., Angrilli, F., Bar-Nun, A., Barucci, A., Bianchini, G., Blix, T., Borucki, W., Coradini, M., Coustenis, A., et al.** 1997. The HASI experiment investigation in Titan's environment. 22nd General Assembly of the *European Geophysical Society*, Vienna, 21-25 April.
13. **Coustenis, A.,** 1997. Titan science and the Cassini mission. Invited seminar. The Univ. of Canterbury at Kent, 19 May.
14. **Coustenis, A.,** 1997. New developments in Titan science. Invited seminar. The Univ. of Oxford, 22 May.
15. **Coustenis, A.,** 1997. Comparative planetology of the surfaces and atmospheres of the Saturnian satellites. IAPSO and IAMAS Symposia, Melbourne, Australia, 2 July.
16. **Coustenis, A.,** 1997. Titan's atmosphere and surface from near-IR spectra and images. JENAM97, Thessalonique, Greece, 4 July.
17. **Coustenis, A.,** 1997. Titan's atmosphere and surface: recent developments. Invited seminar. Appl. Phys. Lab., Johns Hopkins Univ., Baltimore, 6 August.
18. **Coustenis, A.,** 1997. Titan. Invited seminar. NASA/AMES, CA, USA, 17 December.
19. **Coustenis, A.,** 1998. Nouveaux mondes extraterrestres: Titan et planètes extrasolaires. Invited seminar. Académie Aéronautique d'Athens, Greece, 29 January.
20. **Coustenis, A.,** 1998. Titan: new developments on the atmosphere and surface. Invited seminar. Imperial College, London, 12 March.
21. **Coustenis, A.,** 1998. Titan: recent developments from ISO and from ground-based observations. *The Royal Astron. Soc. Meeting*, London, 13 March.
22. **Coustenis, A., Encrenaz, Th., Salama, A. , Lellouch, E., Gautier, D., Kessler, M. F., de Graauw, Th., Samuelson, R. E., Bjoraker, G. L., Orton, G., Wittemberg, R.,** 1998. Titan thermal emission from ISO observations. 23d General Assembly of the *European Geophysical Society*, Nice, 20-24 April.
23. **Coustenis, A., Encrenaz, Th., Salama, A. , Lellouch, E., Gautier, D., Kessler, M. F., de Graauw, Th., Bjoraker, G. L., Samuelson, R. E., Orton, G., Wittemberg, R., Feuchtgruber, H.,** 1998. ISO observations and detection of water on Titan. Colloque « The Jovian System after Galileo, the Saturnian System before Cassini-Huygens ». Nantes, 11-15 May.
24. **Coustenis, A.,** 1998. New extraterrestrial worlds and their exploration. Invited seminar. Univ. de Crète, Heraklion, Greece, 28 May.
25. **Coustenis, A., Salama, A., Lellouch, E., Encrenaz, Th. de Graauw, Th., Bjoraker, G. L., Samuelson, R. E., Gautier, Feuchtgruber, H.D., Kessler, M. F., Orton, G.,** 1998. Titan's atmosphere from ISO observations: Temperature, composition, and detection of water vapor. 30th Annual *DPS Meeting*, Madison, Winsconsin (USA), 11-16 October, *B.A.A.S.* **30**, p 1060.
26. **Feuchtgruber, H., Lellouch, E., Encrenaz, Th., Bézard, B., Coustenis, A., Drossart, P., De Graauw, Th., Davis, G. R.,** 1998. Oxygen sources in the stratospheres of the giant planets and Titan. Colloque « The Universe seen by ISO ». Paris, 20-23 October.
27. **Coustenis, A.,** 1998. Un nouveau regard sur Titan. Invited seminar. Obs. de Genève, Switzerland, 1 December.
28. **Coustenis, A.,** 1999. Extraterrestrial worlds with an atmosphere: Titan and the new extrasolar planets. Colloque « UK Planetary Forum », London, 8 January.

29. **Coustenis, A.,** 1999. A new era in the exploration of extraterrestrial worlds. *3d General Assembly of the United Healthcare Corp*., Minneapolis, Minnesota, 26-29 April.
30. **Coustenis, A., Schmitt, B., Khanna, R., Trotta, F.,** 1999. A study of possible condensates in Titan's stratosphere. 24th General Assembly of the *European Geophysical Society*, La Haye, 20-24 April.
31. **Coustenis, A.,** 1999. Titan's atmosphere from ISO observations. Colloque *IUGG 99*, Birmingham, UK, 18-30 July.
32. **Coustenis, A.,** 1999. Titan's atmosphere and surface from recent space and ground-based observations. Workshop *The bridge between the Big Bang and Biology*, Stromboli, Italy, 12-19 September.
33. **Coustenis, A.,** 1999. The atmosphere of Titan: the Huygens/Cassini mission. *Royal Meteorol. Society.* London, 8 December.
34. **Coustenis, A., Gendron, E., Lai, O., Schmitt, B., Combes, M., Veran, J-P., Lellouch, E., Vapillon, L., Rannou, P., Cabane, M., Mckay, C., Maillard, J-P., Fusco Th.,** 2000. Titan's surface from spectra and images. 25th General Assembly of the *European Geophysical Society*, Nice, 25-29 April.
35. **Coustenis, A.,** 2000. Titan: an exobiotic environment in our Solar System. *2000 Gordon Research Conferences on the Origin of Life*, Plymouth, New Hampshire, USA, 9-14 July.
36. **Coustenis, A., Schmitt, B., Lellouch, E., Gendron, E., Lai, O., Veran, J-P., Combes, M., Rannou, P., Maillard, J-P., Mckay, C., Cabane, M., Fusco Th., Vapillon, L., Raynaud, E., Woillez, J.,** 2000. Titan's surface from ground-based observations. *COSPAR*, Varsovie, Polland, 16-23 July.
37. **Coustenis, A.,** 2000. Recent results from ISO Solar System studies: satellites. *COSPAR*, Varsovie, Polland, 16-23 July.
38. **Coustenis, A., Salama, A., Lellouch, E., Encrenaz, Th., Feuchtgruber, H., De Graauw, Th., Gautier, D., Kessler, M. F.,** 2000. High-resolution observations of Titan with ISO. *COSPAR*, Varsovie, Polland, 16-23 July.
39. **Coustenis, A.**, 2000. Titan's surface from adaptive optics at the CFHT. *24th IAU General Assembly*, Manchester, UK, 7-18 August.
40. **Coustenis, A.,** 2000. A new era in the planetary exploration. *Cortona Week – Science and the Wholeness of Life*, Cortona, Italy, 9-16 September.
41. **Coustenis, A.**, 2001. Titan's exobiological environment as observed by space missions and from the Earth. Invited conference. CNR, Rome, 25 May.
42. **Coustenis, A.**, 2001. Latest advances in planetary atmospheres and Titan. Second Granada Workshop on "The evolving Sun and its influence on planetary environments", Granada, Spain, 18-20 June.
43. **Coustenis, A.**, 2001. Titan's recent results. Invited seminar. Institute of Astronomy, Honolulu, Hawaii , USA, 6 December.
44. **Coustenis, A.**, 2002. Titan's exobiotical atmosphere: recent revelations. *10th ISSOL Meeting/ 13th international conference on the origin of life*, Oaxaca, Mexico, 30 June 30 – 5 July.
45. **Coustenis, A.**, 2003. Exploring the solar system : any (exo)friendly places ?. *Colloque Inaugural du Centro del Astrobiologia* de Madrid. 13-17 January.
46. **Gendron, E., Combes, M., Coustenis, A., Drossart, P., Lacombe, F., Rouan, D., Hirtzig, M., The Naos Team,** 2003. Titan's disk resolved with the Nasmyth adaptive optics system (NAOS) at the ESO/VLT. *28th General Assembly of* the *European Geophysical Society*, Nice, 7-11 April.
47. **Coustenis, A.,**2003. New results on atmospheric and surface features on Titan. *IUGG/IAMAS 2003*, Sapporo, Japon, 30 June-11 July.
48. **Coustenis, A., Hirtzig, M., Gendron, E., Lai, O., Combes, M., Lellouch, E., Rannou, P., Drossart, P.,** 2003. New adaptive optics images of Titan with CFHT/PUEO: disk-resolved description of atmospheric and surface features. *IUGG/IAMAS 2003*, Sapporo, Japon, 30 June-11 July.
49. **Coustenis, A., Gendron, E., Hirtzig, M., Combes, M., Lai, O., Negrao, A., Rannou, P., Emsellem, E., Rousset-Pecontal, A.,** 2004. Hints on Titan's atmosphere and surface from adaptive optics imaging. *Titan lower atmosphere and surface Conference*. Paris, France, 5-6 January.
50. **Coustenis, A., Salama, A., Schulz, B., Ott, S., Lellouch, E., Encrenaz, Th., Bézard, B., Gautier, D., A. Marten, A.,** 2004. The mid-infrared spectrum of Titan. *Titan Aeronomy Conference*. Paris, France, 7-9 January.
51. **Coustenis, A.,** 2004. Titan's atmosphere and surface from imaging and spectroscopy in the past decade. Conférence sur "Titan: From discovery to Encounter", ESA/ESTEC, Noorwijk, The Netherlands, 13-17 April.
52. **Coustenis, A., Drossart, P., Gendron, E., Hirtzig, M., Combes, M., Lai, O., Rannou, P., Negrao, A.,** 2004. CFHT and VLT adaptive optics images : what does Titan look like just before Cassini? *29th General Assembly of the European Geophysical Society*, Nice, 25-30 April.
53. **Hirtzig, M., A. Coustenis, A., Lai, O., Emsellem, E., Pecontal-Rousset, A., Rannou, P., Negrao, A., Schmitt, B.,** 2004. Near-infrared study of Titan's resolved disk in spectro-imaging with CFHT/OASIS. *29th General Assembly of the European Geophysical Society*, Nice, 25-30 April.
54. **Coustenis, A.,** 2004. What can Titan teach us about the early Earth? *XVIèmes rencontres de Blois*, Blois, France, 24-28 May.
55. **Coustenis, A.,** 2004. Titan and the Cassini-Huygens mission. Invited seminar. Space Research and Planetary Sciences Division, Physikalisches Institut, Berne, Switzerland, 16 June.

56. **Coustenis, A.,** 2004. Titan's best look before Cassini. *1st Asian-Oceanian Geophysical Society Assembly*, Singapore, 5-11 July.
57. **Coustenis, A.,** 2004. Titan's atmosphere from recent space and Earth observations: Last call before Cassini/Huygens. *COSPAR* (C3.2) Meeting, Paris, France, 19-24 July.
58. **Coustenis, A.,** 2004. Ground-based glimpses of Titan in the year of the Cassini-Huygens rendez-vous. *COSPAR* (F3.2) Meeting, Paris, France, 19-24 July.
59. **Coustenis, A.,** 2004. Titan's atmosphere and surface from Earth and Space observations. *The Saturn Universe: a Cassini Workshop*, Capri, Italy, 5-8 October.
60. **Coustenis, A.,** 2004. Titan and the Cassini-Huygens mission. Invited seminar. D. L. R. Institut, Berlin, Allemage, 13 October.
61. **Coustenis, A.,** 2004. The composition of Titan's stratosphere from Cassini/CIRS observations. *AGU 2004 Fall Meeting*, San Francisco, CA, USA, 13-17 December.
62. **Tomasko, M. G., Doose, L. R., Rizk, B., Smith, P. H., See, C., Bushroe, M., McFarlane, L., Engel, S., Eibl, A., Karkoschka, E., Prout, M., Dafoe, L. E., West, R. A., Soderblom, L. A., Archinal, B. A., Keller, U., Schroeder, S., Kuppers, M., Bézard, B., Lellouch, E., Coustenis, A., Debergh, C., Combes, M., Schmitt, B., Douté, S., Thomas, N., Gliem, F., Lemmon, M. T.,** 2005. First Results from the Descent Imager/Spectral Radiometer (DISR) Experiment on the Huygens Entry Probe of Titan. 36th Annual Lunar and Planetary Science Conference, March 14-18, 2005, in League City, Texas, abstract no.2194.
63. **Fulchignoni, M., Angrilli, F., Barnun, A., Barucci, M. A., Bianchini, G., Borucki, W., Coradini, M., Coustenis, A., Falkner, P., Ferri, F., Flamini, E., Grard, R., Hamelin, M., Harri, A.-M., Leppelmeier, G., Lopez-Moreno, J., McDonnell, A., McKay, C., Neubauer, F., Pedersen, A., Picardi, G., Pirronello, V., Rodrigo, R., Schwingenschuh, K., Svedhem, H., Zarnecki, J.,** 2005. Physical Characterization of Titan Atmosphere by the Huygens Atmospheric Structure Instrument (HASI). *36th Annual Lunar and Planetary Science Conference*, March 14-18, 2005, in League City, Texas, abstract no.2104
64. **Coustenis, A., Bézard, B., Fouchet, Th., Conrath, B., Achterberg, R., Bjoraker, G., Flasar, M., Jennings, D., Nixon, C., Romani, P., The CIRS Investigation Team,** 2005. Stratospheric composition of Titan from Cassini/CIRS observations. *EGU General Assembly*, Vienna, Austria, 24-29 April.
65. **Hirtzig, M., Coustenis, A., Gendron, E., Drossart, P., Combes, M., Hartung, M., Emsellem, E., Pecontal-Rousset, A., Negrão, A.,** 2005. Titan Observations at the Time of the Huygens Descent with the VLT. *EGU General Assembly*, Vienna, Austria, 24-29 April.
66. **Tomasko, M., and the DISR Team**, 2005. DISR initial results. *EGU General Assembly*, Vienna, Austria, 24-29 April.
67. **Fulchignoni, M., Ferri, F., Colombatti, G., Zarnecki, J. C., Harri, A.-M., Grard, R., and the HASI Team**, 2005. First results of the characteristics of Titan's atmosphere by the Huygens atmospheric Structure Instrument (HASI) measurements. *EGU General Assembly*, Vienna, Austria, 24-29 April.
68. **Flasar, F. M., and the CIRS Investigation Team**, 2005. Exploration of Saturn, its rings, and its moons with the Composite Infrared Spectrometer (CIRS). *EGU General Assembly*, Vienna, Austria, 24-29 April.
69. **Irwin, P., Teanby, N., Fletcher, L., de Kok, R., Calcutt, S., Read, P., Taylor, F., and the CIRS Investigation Team**, 2005. Retrieval of atmospheric properties of Saturn and Titan from Cassini CIRS spectra. *EGU General Assembly*, Vienna, Austria, 24-29 April.
70. **Coustenis, A., Ferri, F., Colombatti, G., Fulchignoni, M., Barucci, A., Conrath, B. J., Flasar, F. M., Achterberg, R., Nixon, C., Zarnecki, J., HASI Investigation Team, CIRS Investigation Team**, 2005. Titan's temperature profile from the ground to the mesosphere from Cassini-Huygens CIRS and HASI measurements. *EGU General Assembly*, Vienna, Austria, 24-29 April.
71. **Lavvas, P., Vardavas, I., Coustenis, A., Papamastorakis, I.,** 2005. Modeling the atmospheric and haze vertical structure of Titan using a radiative/convective-photochemical-microphysical model. *EGU General Assembly*, Vienna, Austria, 24-29 April.
72. **Flasar, F. M., Achterberg, R. K., Conrath, B. J., Gierasch, P. J., and the CIRS Investigation Team**, 2005. Titan's dynamic meteorology : new perspectives after early Cassini CIRS observations. *EGU General Assembly*, Vienna, Austria, 24-29 April.
73. **Ferri, F., Colombatti, G., Fulchignoni, M., Coustenis, A., Yelle, R., Sicardy, B., the HASI Team,** 2005. Titan's atmospheric structure from HASI temperature measurements. *EGU General Assembly*, Vienna, Austria, 24-29 April.
74. **Coustenis, A., Bézard, B., Fouchet, Th., Conrath, B. J., Achterberg, R., Bjoraker, G., Flasar, F. M., Jennings, D., Nixon, C., the CIRS Investigation Team**, 2005. Stratospheric composition of Titan from Cassini/CIRS observations. *EGU General Assembly*, Vienna, Austria, 24-29 April.
75. **Coustenis, A., Tomasko, M., Doose, L., Bushroe, M., Rizk, B., Soderblom, L., Smith, P., Bézard, B., Combes, M., Lellouch, E., Negrao, A., de Bergh, C., Schmitt, B., Douté, S., the DISR Investigation Team,** 2005. Recent results with Cassini-Huygens DISR. *AOGS 2nd Annual Meeting,* Singapore, 20-24 June.
76. **Coustenis, A., Schmitt, B., Douté, S.,** 2005. Ices on Titan after the Cassini-Huygens mission. *AOGS 2nd Annual Meeting,* Singapore, 20-24 June.

77. **Coustenis, A.**, **Bézard, B.**, **Flasar, M., Kunde, V., Bjoraker, G., Nixon, C., Conrath, B., Achterberg, R., Lellouch, E., Marten, A., Courtin, R., Fouchet, Th., Jennings, D., Romani, P., Samuelson, R., The CIRS Investigation Team,** 2005. Titan's atmosphere from Cassini/CIRS observations. *AOGS 2nd Annual Meeting*, Singapore, 20-24 June.
78. **Coustenis, A.,** 2005. Titan's chemical composition from Cassini-Huygens measurements. *JENAM* 2005, Liège, Belgique, 3-7 July.
79. **Coustenis, A.,** 2005. Titan and the Earth: comparisons in view of the recent Cassini-Huygens observations. *IAMAS* 2005, Pékin, Chine, 2-11 August.
80. **Coustenis, A., 2005. the CIRS Investigation Team,** Modeling Titan's stratosphere from Cassini/CIRS observations. *IAMAS* 2005, Pékin, Chine, 2-11 August.
81. **Coustenis, A., the DISR Investigation Team,** 2005. Recent results on Titan's lower atmosphere from Huygens-DISR measurements. *IAMAS* 2005, Pékin, Chine, 2-11 August.
82. **Coustenis, A.,** 2005. Titan et la mission Cassini-Huygens. Invited conference at the Université de Montréal, 11 November.
83. **Coustenis, A., Achterberg, R., Conrath, B., Jennings, D., Marten, A., Gautier, D., Bjoraker, G., Nixon, C., Romani, P., Carlson, R., Flasar, M., Samuelson, R. E., Teanby, N., Irwin, P., Bézard, The CIRS Investigation Team,** 2006. Stratospheric composition of Titan from Cassini/CIRS observations. *EGU General Assembly*, Vienna, Austria, 2-7 April.
84. **Coustenis, A., Bénilan, Y., Jolly, A., Negrão, A.,** 2006, Spectroscopic needs for Titan's characterization. *EGU 31st General Assembly*, Vienna, Austria, 2-7 April.
85. **Hirtzig, M., Coustenis, A., Gendron, E., Drossart, P., Negrão, A., Combes, M., Lai, O., Rannou, P., Hartung, M., Luz, D., Lebonnois, S.,** 2006. Monitoring atmospheric phenomena on Titan. *EGU 31st General Assembly*, Vienna, Austria, 2-7 April.
86. **Ferri, F., Coustenis, A., Marten, A., Colombatti, G., Fulchignoni, M., Flasar, F.,** 2006, Titan's atmospheric temperature profile from Cassini - Huygens ASI and CIRS measurements. *EGU 31st General Assembly*, Vienna, Austria, 2-7 April.
87. **Coustenis, A.,** 2006. Titan and the Cassini-Huygens mission. *Meeting de la Royal Society of Edinburgh*, UK, 12 June.
88. **Coustenis, A.,** 2006. The Cassini-Huygens mission at Titan. *UCL Astrobiology Meeting at Cumberland Lodge*, UK, 10-12 July.
89. **Coustenis, A.,** 2006, Titan atmospheric composition from space investigations. *AOGS 3d Annual Meeting*, Singapore, 10-14 July.
90. **Coustenis, A.,** 2006, Titan atmospheric composition. *COSPAR Symposium C3.1*, Pékin, Chine, 16-23 July.
91. **Coustenis, A.,** 2006, The Composition of Titan's Atmosphere from Remote Sensing Measurements. *COSPAR Symposium C4.4*, Pékin, Chine, 16-23 July.
92. **Coustenis, A.,** 2006, Catalogue of IR and Raman spectra of gas CH_4 and other molecules' coefficients, organics, minerals and ices. *European Planetary Science Congress*, Berlin, Germany, 18-22 September.
93. **Coustenis, A.,** 2006, Nitrogen compounds in Titan's stratosphere. *European Planetary Science Congress*, Berlin, Germany, 18-22 September.
94. **Coustenis, A.,** 2006, Dating planetary surfaces from cratering processes: formation of the solar system. *European Planetary Science Congress*, Berlin, Germany, 18-22 September.
95. **Coustenis, A.,** 2006, Definition and archiving of ground-based observations in support of space missions. *European Planetary Science Congress*, Berlin, Germany, 18-22 September.
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163. **Coustenis, A.,** 2015. Les lunes de glace dans notre système solaire. Avec V. Dehant. Cours au Collège Belgique, 25 March.
164. **Coustenis, A.,** 2015. Future exploration of Ganymede and Europa with JUICE and other missions. *International Planetary Probe Workshop (IPPW-12)*, Cologne, Germany, 15-19 June.
165. **Coustenis, A.,** 2015. Organic chemistry on planetary satellites around the gas giants and implications for habitability. Focused meeting 15, *International Astronomical Union (IAU) General Assembly*, Honolulu, Oahu, Hawaii, USA, 3-14 August.
166. **Coustenis, A.,** 2015. Laboratory and theoretical work in the service of planetary atmospheric research. Focused meeting 12, *International Astronomical Union (IAU) General Assembly*, Honolulu, Oahu, Hawaii, USA, 3-14 August.
167. **Coustenis, A.,** 2015. Paneliste invitede au Focused meeting 11: Global Coordination of National and International Strategic Planning, *International Astronomical Union (IAU) General Assembly*, Honolulu, Oahu, Hawaii, USA, 3-14 August.
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169. **Coustenis, A.**, 2016. Space exploration of habitable worlds in the outer solar system. Invited seminar. Chinese Academy of Sciences, NSSC, 15 March.
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23. **Combes, M.**, **Vapillon, L.**, **Gendron, E.**, **Coustenis, A.**, **Encrenaz, Th.,** 1995. Spatially resolved imaging of Titan in the near-infrared by adaptive optics. XX General Assembly of the *European Geophysical Society*, Hamburg, (Germany), 3-7 April.

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74. **Coustenis, A.**, 2001. The atmosphere and surface of Titan investigated from the ground and from space. 5th Hellenic Astronomical Conference, Crète, Greece, 20-22 September.

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M. Abbas, P. Ade, A. Barucci, B. Bezard, R. Courtin, A. Coustenis, D. Gautier, E. Lellouch, A. Marten, S. Calcutt, P. Irwin, P. Read, F. Taylor, T. Owen, C. Cesarsky, C. Ferrari, J. P. Meyer, L. Travis, A. Coradini, R. Prangee, K. Grossman, J. Spencer. 2001. Joint Cassini, Galileo and Ground-Based Infrared Observations of Jupiter's Atmosphere. 33d Annual *DPS Meeting*, New Orleans, Louisiana (USA), 26 November-1 December, *B.A.A.S.* **33**, p. 1035.

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84. Coustenis, A., 2002. Bioastronomy in our Solar System : Titan studies and the Cassini mission. IAU Symposium 213 "Bioastronomy 2002: Life Among the Stars", Great Barrier Reef, Australia, 8-12 July.

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91. Hirtzig, M., Coustenis, A., Lai, O., Combes, M., Gendron, E., Gratadour, D., Fusco, Th., Mugnier, L., Rannou, P., Negrao, A., Lebonnois, S., Bratsolis, E., 2003. New Titan atmospheric and surface features as seen with CFHT/PUEO. 35th Annual *DPS Meeting*, Monterey, California, (USA), 2-6 September, *B.A.A.S.* **35**, p. 932.

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97. Hirtzig, M., **Coustenis, A.**, **Rannou, P., Negrao, A., Lai, O., Gendron, E., Combes, M., Emsellem, E., Pecontal-Rousset, A.**, 2004. Study of seasonal and unusual atmospheric phenomena on Titan. COSPAR (C3.2) Meeting, Paris, France, 19-24 July.

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100. **Coustenis, A.,** 2004. High-resolution observations and modeling of Titan. 18th International Conference on High Resolution Molecular Spectroscopy, Prague, République Tchèque, 8-12 September.

101. **Coustenis, A.**, **Bézard, B.**, **Lellouch, E.**, **Fouchet, Th., Conrath, B., Achterberg, R., Jennings, D., Flasar, M., And The Cirs Investigation Team,** 2004. Stratospheric composition of Titan from Cassini/CIRS. 36th Annual DPS Meeting, Louisville, KY, USA, 8-12 November.

102. Bézard, B., **Coustenis, A.**, **Fouchet, Th.**, **Lellouch, E.**, **Conrath, B., Achterberg, R., Jennings, D., Flasar, M., And The Cirs Investigation Team**, 2004. Cassini/CIRS observations of Titan's equatorial region in the submillimeter spectral range. 36th Annual DPS Meeting, Louisville, KY, USA, 8-12 November.

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105. Bernard, J-M., Coll, P., Quirico, E., Schmitt, B., Pintassilgo, C. D., Benilan, Y., Jolly, A., Cernogora, G., Coustenis, A., Raulin, F., 2004. Titan's atmospheric chemistry: complementarity of observations, models and experimental simulations. EANA Meeting, Milton Keynes, UK, 22-25 November.

106. **Coustenis, A., Ferri, F., Achterberg, R., Bézard, B., Colombati, G., Conrath, B., Fulchignoni, M., Flasar, M., Marten, A., Nixon, C., Vinatier, S., Zarnecki, J., the CIRS and HASI investigation Teams**. 2005. Titan's temperature profile from the ground to the mesosphere from Cassini-Huygens CIRS and HASI measurements. *EGU General Assembly*, Vienna, Austria, 24-29 April.

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449. Solomonidou, A., Coustenis, A., Lopes, R.M.C., Malaska, M., Rodriguez, S., Drossart, P., Schmitt, Hirtzig, M., Brown, R. H., 2017. Titan's mid-latitude regions surface composition with Cassini/VIMS. Ices in the SOlar System Workshop. Villanueva del Castillo, Spain, 23-26 January.

450. Cornet, Th., Rodriguez, S., Maltagliati, L., Appéré, T., Sotin, C., Le Mouélic, S., Rannou, P., Solomonidou, A., Hirtzig, M., Bézard, B., Coustenis, A., et al., 2017. Radiative Transfer Modelling in Titan's Atmosphere Using Cassini/VIMS data. *LPSC 2017*, The Woodlands, TX, USA, 20-24 March.

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Outreach publications

1. **Coustenis, A.,** 1993. L'exploration de Titan. *Astronautique* **18**, 52-60.
2. **Coustenis, A.,** 1995. Les plus grands télescopes du 21ème siècle. *Astronautique* **22**, 34-41.
3. **Coustenis, A.,** 1995. Astronomie et mythes. *Astronautique* **23**, 59-62.
4. **Coustenis, A.,** 1996. Traces de vie primitive sur March. *Night sky* **4**, 13-16.
5. **Coustenis, A.,** 1997. Cassini: Mission vers Titan. *Night Sky* **12**, 28-32.
6. **Coustenis, A.,** 1997. Nouveaux mondes extraterrestres: Titan et planètes extrasolaires. *Night Sky* **13**, 38-46.
7. **Coustenis, A.,** 2005. "Une mission réussie : Huygens sur Titan". *L'Astronomie* **119**, 134-135.
8. **Coustenis, A., et al.**, 2008. La mission TandEM: retour vers Titan et Encelade. *L'Astronomie*, April 2008.
9. **Bampasidis, G., Mitsakou, E., Moussas, X., Coustenis, A., Dialynas, K., Preka-Papadema, P., et al.,** 2009. Outreach of Astronomy in Greece: a review of space group outreach activities. Adv. Space Res., soumis.

10. **Bampasidis, G., Moussas, X., Coustenis, A., Preka-Papadema, P., Dialynas, K., et al.,** 2012. Promoting astronomy to the broader public by using the antikythera mechanisms and sky observations. J. Science Education and Technology, soumis.

Extract of some E/PO activities (in French, essentially recent)

1. Membre du Jury du Prix Ciel & Espace du livre d'astronomie (2014-2015)
2. Membre du Jury du Prix du Livre de l'Astronomie de Haute Maurienne (1995-2002) et membre du comité scientifique du même Festival d'Astronomie (2003-2013).
3. Membre du Comité de pilotage de l'Année Mondiale d'Astronomie en 2009.
4. Référante de Année de la Physique 2005.
5. 12 September 2013 : Science Show off au Bloomsbury Theater, London.
6. Membre du Jury du Livre d'Astronmie de la revue Ciel et Espace (2014- 2016)
7. 25 March 2015. Les lunes de glace dans notre système solaire. Avec V. Dehant. Cours au Collège Belgique.
8. Cours au colloque « water in the Universe » de la Specola Vaticana, Ecole d'été, 28 mai-24 June 2016, Castel Gandolfo, Rome, Italy.
9. Cours sur l'habitabilité dans le système solare, Ecole Francorecque des Ursulines, Athens, Greece, 13 February 2017.
10. Cours « Waterwolrds and habitabiility in the solar syste », Ecole d'été Red'17, Le Teich, 6-10 March 2017.
11. Plusieurs conférences de vulgarisation auprès du public en France et à l'étranger, invitée par des sociétés scientifiques, lors de « Portes Ouvertes », « Bars des Sciences », Universités, Lycées, Collèges, Planétariums, Expositions, etc, dont récemment :
    a. 18 September 2010. Journées Européennes du patrimoine : Conférence « Du côté de Saturne et de son satellite Titan ». Observatoire de Paris.
    b. 24 March 2011 : Conférence publique et rencontre lors des *Sciences à Cœur* autour de « La chimie des origines de la vie : Titan, satellite de Saturne », Univ. Pierre et Marie Curie, Jussieu.
    c. 30 August 2011. Conférence Publique : « L'exploration du Système de Saturne », Dijon, France.
    d. 4 September 2011 : Conférence publique : « Titan et le système de Saturne », Ioannina, Greece.
    e. 25 October 2011 : Conférence lors des *Journées de Rentrée Ecole Doctorale Interdisciplinaire pour le Vivant,* Université Pierre et Marie Curie, Jussieu.
    f. 2 December 2011 : Conférence à l'*école doctorale Sciences de l'Univers, de l'Espace de la Terre et du Climat (UNITER)* de Belgique, Brussels.
    g. 31 January 2012 : Conférence à l'Univ. Inter-âges de Versailles.
    h. 31 August 2012 : Conférence grand public à Reims « L'exploration du système de Saturne »
    i. 1 February 2013 : Conférence société d'astronomes amateurs, St Pierre du Perray sur « Les mondes habitables »
    j. 12 September 2013 : Conférence at the British Interplanetary Society, London, UK, sur « JUpiter ICy moons Explorer (JUICE): The First Large ESA Cosmic Vision Mission ».
    k. 6 January 2015 : Conférence grand public au Beffroi, Mairie de Montrouge, France. « L'exploration des mondes habitables ».
    l. 19 April 2016 : Cours au GIFT de l'EGU, Vienna, Austria. « The exploration of the icy moons ».
    m. 5 July 2016 : JUNO event, Paneliste, Athens, Greece,
    n. 16 February 2017 : L'exploration du système solaire externe. The Hub Events, Athens, Greece
    o. 17 June 2017 : Palais de la Découverte : Planétarium, conférence, 350 ans de l'Observatoire de Paris.
    p. 22 June 2017 : Colloque 350 ans de l'Observatoire, Palais de Versailles, Grand Auditorium, conférence : « les mondes habitables dans le système solaire externe ».
    q. 29 July 2017 : Nuit des Etoiles, Montrouge, conférence et animation.
    r. 2 August 2017 : ASTRORAMA, Eze, France
    s. 18 August 2017 : Emission "Le temps d'un bivouac" sur France Inter
    t. 8 Sept. 2017 : Participation à l'événement à l'Hôtel de Ville de Paris : « Cosmos sur Scènce, télescopes sur Seine ».
    u. 15 Sept. 2017 : Interview lors de la fin de la mission Casisni, La Cité des Sciences-JPL.

12. Participation à des films internationaux et à la série "Destiny" et « Planets » de la BBC (1999 - 2004). Participation à des émissions télévisées. Documentaire sur les satellites de Saturne, EURONEWS, Space Magazine de la semaine du 30 November.
    a. 1999 : "The Planets", BBC *DESTINY* Series, 52 mns.
    b. 2000: "Le lien cosmique" d'Hélène Fol, Eric Michel Prod., Canada, 51 mns.
    c. 2003 : "Les astres errants", film de F. Schneider, Switzerland, 51 mns.
    d. 2016 : « Titan : Terra incognita ».

e. 2017 : NOVA TV film, documentaire sur Cassini-Huygens
f. 2017 : BBC documentaire sur la fin de Cassini
g. 2017 : Participant et conseillller scientifique du film : « Titan : Terra incognita », AGAT films pour France 5.

13. Nombreuses interventions médiatiques dont récemment :
    a. Oct. 2010 : émission EURONEWS sur Saturne et Cassini.
    b. July 2013 : émission « Le temps d'un bivouac » sur France Inter.
    c. 6 January 2014 : émission « la tête au carré » sur France Inter.
    d. 5 December 2014 : Emission France culture / science publique / Michel Alberganti
    e. 25 February 2015 : Cartables FM
    f. 9 Mai 2017 : Emission France culture / La Méthode scientifique.

Participation in some recent events in relation to space

- 14-15 Sept. 2016 : Invitation to « ESA Space for Inspiration Event », London, UK.
- 15-17 March 2017 : Member of the Conclave EU Space policy, Windsor, UK.
- 28-30 May 2017 : The National Academy of Sciences Space Studies Board Space Science Week : Conférence Plénière : « The European Space Programme ».
- 14-15 June 2017 : Invited to the « Space Policy for EU Integration – 60th anniversary of the Rome Treaties high-level event» : https://www.sme4space.org/space-policy-for-eu-integration-60th-anniversary-of-the-rome-treaties/
- 20 June 2017 : Participation in the Panel « Presenting Europe's new vision for space exploration » at the ESA pavilion, Paris Air and Space show 2017 : http://www.esa.int/About_Us/Exhibitions/Le_Bourget_2017/ESA_at_the_Paris_Air_and_Space_Show_19_25_June_-_Programme_of_events

Some recent reports or statements

1. De Bergh, C., *et al.*, 2000. IAU Report of Commission 16: Physical study of planets and satellites. J. Andersen (ed.), Reports on Astronomy, Vol XXIVA, 1-20.
2. The ESSC statement on Climate Change (10/12/2015). ESF-ESSC Committee.
3. The ESSC Statement on ESA Life and Physical Sciences in Space Programme (20/12/2015). ESF-ESSC Committee.
4. The ESSC contribution to EC consultation on the Horizon 2020 2018-2020 SPACE Work Programme (22/04/2016). ESF-ESSC Committee.
5. The ESSC contribution to EC Public consultation on a Space Strategy for Europe (23 June 2016). ESF-ESSC Committee.