PUBLICATIONS

APL staff members were authors or coauthors of the following unclassified books and technical articles that were recently published:

Anderson BJ, Denton RE, Ho G, Hamilton DC, Fusselier SA, and Strangeway RJ


Belehaki A, Sarris ET, Tsiropoula G, McIntyre RW, Kokubun S, and Yamamoto T

Benson RC, Phillips TE, Boies MT, and Uy OM

Betenaugh TM, and Tomkiewicz RL

Bierman PJ, Cramer JH, Lebowitz CA (Edison Welding Inst.), and Brown LM (NSWC, Carderock)

Boies MT, Cole TD, El-Dinay AS, and Reiter RA

Boies MT, Phillips TE, Silver DM, El-Dinay AS, Uy OM, Dyer JS (Utah State Univ.), and Mill JD (Environmental Research Inst. of Michigan)

Bristow WA, and Greenwald RA

Butler MH, Dakermani G, Jenkins JE, and Carlsson PU

Castella FR

Charles HK Jr, Mach KJ, and Edwards RL

Charles HK Jr, Mach KJ, Edwards RL, and Lehtonen SJ

Cheng AF, and Parianicas CP

Cheng AF, Pieters C, and Murchie S

Christon SP, Gloeckler G, Eastman TE, McIntyre RW, Roelof EC, Lui ATY, Williams DJ, Frank LA, Paterson WR, Kokubun S, Matsumoto H, Kojima H, Mukai T, Saito Y, and Yamamoto T
Average energetic ion flux variations associated with geomagnetic activity from EPIC/STICS on Geotail, Proc. 3rd Int. Conf. on Substorms, ESA SP-389, pp. 527–532 (1996).

Cloeren JM, and Hamilton C

Cole TD, Cheng AF, Zuber MT, and Smith D

Cole TD, and Davidson F

Colvin AE Jr (Process Technologies, Inc.), Phillips TE, Miragliotta JA, Givens RB, and Bergeron CB

Conn RA, and Kam M (Drexel Univ.)

Constantinides KT, Thomas ME, and Claussen ED

Corvelli AA (JHU-BME), Biermann PJ, and Roberts JC

Crawford LJ, Coughlin TB, and Ebert WL

DeBoy CC, Schwanz PD, and Hueschman RK

Denton RE, Anderson BJ, Ho G, and Hamilton DC
Diver DA, Brown JC, and Rust DM

Dragonette RA

Dunham DW, Farquhar RW, and McAdams JV

Eisenreich P, Hersman CB, Boldt JD, Oden SF, and Temkin D
Modular design of data processing hardware for spacecraft instruments, Proc. 2nd IAA Int. Conf. on Low-Cost Planetary Missions, JHU/APL, Laurel, MD, Paper IAA-L-0915 (1996).

El-Dinary AS, and Cole TD

El-Dinary AS, Cole TD, Reiter RA, and Rodriguez DE

Ercol CJ, and Krein SJ

Erlandson RE, Boies MT, Uy OM, Grebowsky J (NASA Goddard), and Coulson JT (SAIC)

Erlandson RE, Mursula K, and Bosinger T

Eviatar A, Vasyliunas VM, and Richardson JD

Farquhar RW

Franson JD

Freund DE, McCally RL, Farrell RA, and Slaney DH (US Army)
A theoretical comparison of retinal temperature changes resulting from exposure to rectangular and Gaussian beams, Lasers in the Life Sci. 7(2), 71–89 (1996).

Galica GE (Physical Sciences, Inc.), Atkinson JJ (Visidyne), Aurilio G (Visidyne), Shepherd O (Visidyne), Lesho JC, and Uy OM

Galica GE (Physical Sciences, Inc.), Green BD (Physical Sciences, Inc.), Atkinson JJ (Visidyne), Aurilio G (Visidyne), Shepherd O (Visidyne), Lesho JC, and Uy OM

Ginther MJ, Folkerts JT, Uy OM, Street K Jr (NASA Lewis), and Naumann J Jr (NASA Lewis)

Givens RB, Murphy JC, Osander R, Kistenmacher TJ, and Wickenden DK

Goldsten J0, McNutt RL, Gold RE, Gary SA, Fiore EM, Schneider SE, Hayes JR, and Trombka JI

Graber HC, Thompson DR, and Carande RE

Green BD (Physical Sciences, Inc.), Galica GE (Physical Sciences, Inc.), Mulhall PA (Physical Sciences, Inc.), Dyer J (Utah State Univ.), and Uy OM

Greenwald RA


Harvey RJ

Harvey RJ, and Baer GE

Hawkins SE III

Hersman C, Boldt J, Eisenreich PJ, Oden S, and Temkin D
Modular design of data processing hardware for spacecraft instruments, Proc. 2nd IAA Int. Conf. on Low-Cost Planetary Missions, JHU/APL, Laurel, MD, Paper IAA-L-0915 (1996).

Howser LM

Jacobs BC, and Franson JD

Jenkins AL (Univ. of MD Baltimore County), Murray G (Univ. of MD Baltimore County), and Uy OM
Jensen JR, and Raney RK

Kennedy MJ, Friedman SD, Barkhouser RH, Hampton J, and Nikulla P

Kennedy MJ, Sahnow DJ, VanDyke CM, Gong Q, and Bremer J

Krein JA, and Mehoke DS

Le BQ

Le BQ, Cole TD, Rodriguez DE, Reiter RA, Moore RC, Boies MT, Schafer ED, Stillman LE, and Krein SJ

Le BQ, Nhan E, Lew AL, Maurer RH, Clatterbaugh GC, and Lohr D

Lee SC, and Santo AG

Lu G, Emery BA, Rodger AS, Lester M, Taylor JR, Evans DS, Ruohonieni JM, Denig WF, de la Beaumariere O, Frahm RA, Winningham JD, and Chenette DL

Lui ATY
Local and global effects of the cross-field current instability, Proc. 3rd Int. Conf. on Substorms, ESA SP-389, pp. 387–392 (1996).

Marshall MH, Landshof JA, and van der Ha JC

Maurer RH, Heins RJ, and Cole TD

Matsuzawa M (Riken), Weight FF (NIAAA), Potemker RS, and Liesi P (NIAAA)

McEntire RW, Cheng AF, Murchie SL, Keath EP, Managadze GG, and Rosenbauer HR


Meng CI

Miraglia J, and Wickenden DK

Moore RC, and Rodriguez DE

Mueller JT, and Wingate CA


Newell PT, Lyons KM, and Meng CI

Noreen G, Kinman P, and Bokulic RS

Norton JR, Cloeren JM, and Sukfer PG

Ohtani S, Takahashi K, Higuchi T, Lui ATY, and Spence HE
AMPTE/ICE and SCATHA simultaneous observations of magnetic signatures associated with a substorm onset, Proc. 3rd Int. Conf. on Substorms, ESA SP-389, pp. 279–281 (1996).

Osiander R, Ecelberger SA, Givens RB, Wickenden DK, Murphy JC, and Kistenmacher TJ

Paranicas CP

Payne RR

Persons DF

Potemra TA, and Blumberg LG

Raney RK, and Gasparovic RF

Rapport ID, Balkcom GW, Stirrat CR, and Wilson RL

Roths JC

Ruohoniemi JM, and Greenwald RA
Statistical patterns of high-latitude convection obtained from Goose Bay HF radar observations, J. Geophys. Res. 101, 21,743–21,763 (1996).

Rzemien R

Santo AG, Krimgis SM, Jenkins RE, Reynolds EL, and Coughlin TB

Schaef er ED

Schaef er ED, and Lacy JM

Sears RD, Romick G, Morrison D, and Murphy P

Seagar WS (US Army Edgewood Research Center), Cutsch PN, Fuller MR (Dept. of the Interior), Suter JJ, Bhatnagar V, and Wall JG
Fifteen years of satellite tracking development and application to wildlife research and conservation, Johns Hopkins APL Tech. Dig. 17(4), 401–411 (1996).


Sinsky JH, and Westgate CR

Srinivasan R, Gopalan P, Zarriello PR, Myles-Tochko CJ, and Meyer JH

Stapor WJ, Knudson A, Kinnison JD, Carkhuff BG, and Dussault H

Straka SA (NASA Goddard), Chen PT (NASA Goddard), McIntosh R (NASA Goddard), Banks B (NASA Lewis), Uy OM, Bugby DC (Swales), Triolo JJ (Swales), and Bettini R (Swales)

Strikwerda TE, and Fisher HL

Strohbehn K, Darlington EH, Le BQ, Schwartz PD, Hersman CB, and Peacock K

Swaminathan PK, Taylor JC, Rault DFG, Erlandson RE, and Meng CI

Takahashi K, Anderson BJ, and Ohntani S

Theriault ML

Uy OM, Ginther MJ, Folkerts JT, and Street KW Jr (NASA Lewis)

van der Ha JC, Marshall MH, and Landshof JA

Venkataramani SC (Univ. of MD), Antonsen TM Jr (Univ. of MD), Ott E (Univ. of MD), and Sommerer JC

White ME, and Ault DA
Expansion corner effects on hypersonic shock wave turbulent boundary-layer interactions, J. Propulsion and Power 12(6) (1996).

Williams DJ


Wood BE (Arnold Eng. Dev. Center), Hall DF (Aerospace Corp.), Lesho JC, Dyer JS (Utah State Univ.), Uy OM, and Bertrand WT (Arnold Eng. Dev. Center)
Quartz crystal microbalance (QCM) flight measurement of contamination on the MSX satellite, Proc. SPIE Int. Conf.:

Wood BE (Arnold Eng, Dev. Center), Seiber BL (Arnold Eng, Dev. Center), Bertrand WT (Arnold Eng, Dev. Center), and Uy OM

Yamamoto T, Inoue S, and Meng CI

Yamamoto T, Inoue S, Nishitani N, Ozaki M, and Meng CI

Yamauchi M, and Lui ATY


Yoon PH, Drake JF, and Lui ATY

Zanetti LJ, Gold RE, Bythworth PF, Chiu MC, and Rust DM

PRESENTATIONS

APL staff members were among those who gave the following unclassified presentations:

Anderson BJ
Monitoring auroral oval configuration via auroral zone fluctuations: Encounter between global observations and models in the ISTP era, Huntsville Workshop, Huntsville, AL (15–20 Sep 1996).

Bauer GE, and Harvey RJ

Benson RC, Phillips TE, Boies MT, and Uy OM
Neutral mass spectrometer results from MSX early operations phase, SPIE Int. Conf.: Optical System Contamination (1996).

Biermann PJ, Cranmer JH, Lebowitz CA (Edison Welding Inst.), and Brown LM (NSWC, Carderock)

Boies MT, Phillips TE, Silver DM, El-Dinay AS, Uy OM, Dyer JS (Utah State Univ.), and Mill JD (Environmental Research Inst. of Michigan)
Total pressure sensor results from the early operations phase of the MSX mission, SPIE Int. Conf.: Optical System Contamination (1996).


Bhelyansky A (Univ. of MD Baltimore County), Zeng X (Univ. of MD Baltimore County), Murray G (Univ. of MD Baltimore County), and Uy OM
A metal ion templated polymeric sensor for lead, Scientific Conf. on Chemical and Biological Defense Research, Paper No. 12, Aberdeen Proving Ground, MD (19–22 Nov 1996).

Charles HK Jr, Mach KJ, and Edwards RL

Charles HK Jr, Mach KJ, Edwards RL, and Lehtonen SJ

Charles HK Jr, and Mechtel DM (US Naval Academy)

Charles HK Jr, Schneider W, Eaton HAC, Wagner GD, and Lesho JC

Cheng AP, and Parishas CP
Field-aligned potential drops near Io, Galileo Project Science Group, Pasadena, CA (20 Nov 1996).

Chin DC

Corvelli AA (JHU-BME), Biermann PJ, and Roberts JC

Coughlin TB

Coughlin TB

NEAR spacecraft design-development, Massachusetts Inst. of Technology Dept. of Aeronautics, Master of Engineering Aerospace Product Design Course Design, Cambridge, MA (14 Nov 1996).

Both the first launch in the Discovery program, Small Satellite Conf., NASA/GSFC, Greenbelt, MD (22 Oct 1996).

Dunham DW, Farquhar RW, McAdams JA, Williams BG, Scheeres D, Wasserman L, Klemola A, Harris H, and Manek J

Erlandson RE, Boies MT, Uy OM, Grebowski J (NASA Goddard), and Coulson JT (SAIC)
MSX contamination experiment ion mass spectrometer observations during early operations, SPIE Int. Conf.: Optical System Contamination (1996).

Fetter JE
Building telecommunication projects for rural Maryland, Technology Showcase, Office of Rural Health, Baltimore, MD (10 Dec 1996).
Fetter JE, Schinski V (USUHS), Allman R (UMAB), and Gitlin J (JHMI)
Baseline study at Sacred Heart Hospital, Third Annual Rural Health Conf., Office of Rural Health, Solomon’s Island, MD (24 Oct 1996).

Fraeman ME, Hoffman Ej, and Kinnison J
High-performance computing for space, DARPA Workshop, Alexandria, VA (9 Jul 1996).

Fraeman ME, Martin M, Pouliquen P, and Andreau A

Galica GE (Physical Sciences, Inc.), Atkinson JJ (Visidyne), Aurilio G (Visidyne), Shepherd O (Visidyne), Lesho JC, and Uy OM
Optical measurement of the MSX local H2O density, SPIE Int. Conf. (1996).

Galica GE (Physical Sciences, Inc.), Green BD (Physical Sciences, Inc.), Fetter JE, Schinski V (USUHS), Allman R (UMAB), and Hoffman Ej
Use of a NASA-developed ion exchange material for removal of zinc from electroplating, AESF SUR-FIN Conf., Cleveland, OH (Jun 1996).

Green BD (Physical Sciences, Inc.), Galica GE (Physical Sciences, Inc.), Mulhall PA (Physical Sciences, Inc.), Dyer J (Utah State Univ.), and Uy OM
Particle trajectories and clearing times after mechanical door openings on the MSX satellite, SPIE Int. Conf. (1996).

Haley DR, Londerville G, and Ciolino R
In-flight experience of the space inertial reference unit using the solid state HRG, Third ESA Int. Conf. on Spacecraft Guidance, Navigation and Control Systems, Noordwijk, Holland (26–29 Nov 1996).

Hoffman Ej

Jenkins AL (Univ. of MD Baltimore County), Murray G (Univ. of MD Baltimore County), and Uy OM
A polymer-based optical sensor for the chemical agents sarin and soman, Scientific Conf. on Chemical and Biological Defense Research, Aberdeen Proving Ground, MD (19–22 Nov 1996).

Jensen Jr, and Raney RK
The advanced satellite radar altimeter, 47th Int. Astronautical Congress, Beijing, China (7–11 Oct 1996).

Jerardi TW, Beaulieu MR, and Alfriend KT

Kleinman N, Hill S, and Ilenda V

Koontzner GC, Rowland JR, Dockery GD, and Sylvester JJ

Kwok FT, Van Wie DM, Walsh RF, and Numbers KE (WL/FIMA)

Landshof JA

Le BQ
Chip-on-board technology, Electronics Packaging Workshop for Space Applications, Jet Propulsion Laboratory, Pasadena, CA (3–6 Nov 1996).

Le BQ, Nhan E, Maurer RH, Lew AL, Schwartz PD, and Lander J
Chip-on-board technology for space electronics design, 2nd Sun–Earth Connection Roadmap Workshop, Jet Propulsion Laboratory, Pasadena, CA (28–30 Oct 1996).

Maryak JL, Spall JC, and Heydon BD

McAdams J
NEAR—First launch of the Discovery program, Purdue University School of Aeronautics and Astronautics, West Lafayette, IN (4 Oct 1996).


Meng CI, Lui AY, Sibeeck DG, Newell PT, Elphinstone RD, Murphy JS, and Korotova GI
Breakups, pseudo-breakups, and interplanetary conditions, Chapman Conf. on the Earth’s Magnetotail: New Perspectives, Kanazawa, Japan (5–9 Nov 1996).

Parthasarthathy KN, McGrath BE, Frostbutter DA, and Wozniak JJ

Payne RR

Phillips TE, and Benson RC
Outgassing and moisture sorption investigations of two moisture gettering materials, 6th Int. Workshop on Moisture in Microelectronics, National Institutes of Standards & Technology (NIST), Gaithersburg, MD (15–17 Oct 1996).

Raney RK


Roberts JC

Rowland JR, Konstanzer GC, Neves MR, Miller RE, Meyer JH, and Rottier JR

Rust DM

Santo AG, Krimigis SM, Jenkins RE, Reynolds EL, and Coughlin TB

Schaefer ED


Schwartz PD, DeBoy CC, and Huebschman RK

Sears RD, Romick G, Morrison D, and Murphy P


Spall JC, Maryak JL, and Asher MS

Straka SA (NASA Goddard), Chen PT (NASA Goddard), McIntosh R (NASA Goddard), Banks B (NASA Lewis), Uy OM, Bugby DC (Swales), Triolo JJ (Swales), and Bettini R (Swales)

Strikerwerda TA

Theriault ML

Thompson MW, Waltrup PJ, Rice T, Adamazak D (WL/FIMA), Gord PR (WL/FIMA), and Numbers KE (WL/FIMA)

Vetter JR, London ML, and Spangler RW
A fiber optics buoyant cable antenna for wide bandwidth communications applicable to SSBNs and SSNs, *AIAA Missile Sciences Conf.*, Naval Postgraduate School, Monterey, CA (2–5 Dec 1996).

White ME

Wilkinson WO

Williams KE

Wing S, and Newell PT

Wing S, Newell PT, and Onsager TG
Modeling the entry of the magnetosheath particles into the dayside ionosphere, *1st Alfvén Conf. on Low-Altitude Investigation of Dayside Magnetospheric Boundary Processes*, Kiruna, Sweden (9–13 Sep 1996).

Wood BE (Arnold Eng. Dev. Center), Hall DF (Aerospace Corp.), Lesho JC, Dyer JD (Utah State Univ.), Uy OM, and Bertrand WT (Arnold Eng. Dev. Center)
Quartz crystal microbalance (QCM) flight measurement of contamination on the MSX satellite, *SPIE Int. Conf.: Optical Science, Engineering, and Instrumentation* (1996).

Wood BE (Arnold Eng. Dev. Center), Seiber BL (Arnold Eng. Dev. Center), Bertrand WT (Arnold Eng. Dev. Center), and Uy OM
The following papers were presented at the American Geophysical Union Fall Meeting, San Francisco, CA (15–19 Dec 1996):

Anderson BJ, Erlandsen RE, and Klumpar DM
Auroral oval monitoring by point mosaic imaging.

Observations of ion and electron phase space densities in the Io torus region.

Barabash S, and Roelof EC
Results from ENA imaging on the multisatellite astrid.

Brandt PC, Barabash S, Lundin R, Roelof EC, Chase CJ, and Mauk BH
ENA imaging of the high-energy ion precipitation at low altitudes.

Lower atmosphere temperature profiles from stellar refraction observed from space.

Chase CJ, and Roelof EC
Extracting the global dynamics of the plasmapause from EUV images using a nonparametric algorithm.

Cheng AF, and Paranicas CP
Implications of a magnetic signature at Io.

Chin DC, Chase CJ, Roelof EC, Williams DJ, and Brandt PC
Unfolding ring current dynamics from energetic neutral atom measurements by Geotail EPIC/ICS.

Craven JD, Immel TJ, Frank LA, Sigwarth JB, Meng CI, Parks GK, Killeen TL, Sharp WE, and Lepping RP
FUV observations of the active aurora and correlated perturbations to thermospheric composition as seen with the visible imaging system on the POLAR spacecraft.

Decker RB, Krimigis SM, and Roelof EC
Multi-spacecraft views of energetic particle distributions throughout the heliosphere.

Decker RB, Roelof EC, Gold RE, Simnett GM, Lanzerotti LJ, Maclennan CG, and Armstrong TP
Recurrence low energy particle events in the northern hemisphere: Ulysses, Voyager 1/2, and IMP 8.

Erlandsen RE, Zanetti LJ, Blomberg LG, Eriksson A, Eliasson L, and Clemmons J
Freja observations of EMIC waves on auroral field lines in the pre-midnight sector.

Farquhar RW
NEAR mission overview and plans for an encounter with 253 Mathilde.

Goenbelf L, Paxton LJ, Morrison D, Romick GJ, Anderson DE, Meng CI, Strickland DJ, and Evans JS
Low Earth orbit satellite images of the aurora in the visible and far ultraviolet.

Hawkins SE III, Gold RE, Murchie SL, Malin M, Robinson MS, and Veverka J
The multi-spectral imager on board the NEAR spacecraft.

New energetic particle observations of the Energetic Particles Detector (EPD): Ganymede 2 encounter.

Kupperman DG, Anderson DE, Demajistre R, Romick GJ, Morrison D, Paxton LJ, Carbery JF, Yee YH, Morgan F, Meng CI, and Kumar CK
Retrieval of ozone density from MSX satellite stellar occultation observations.

Lower thermospheric molecular oxygen densities retrieved using stellar occultation observations.

Energetic ions in the vicinity of Io obtained from the Energetic Particles Detector on board the Galileo spacecraft.

Lui ATY
Do we understand the NEAR-Earth plasma sheet dynamics during substorms?

Lui ATY, Williams DJ, McEntire RW, Christon SP, Eastman TE, Kokubun S, and Yamamoto T
Ion composition variations inside flux-ropes/plasmoids in the magnetotail.

Maclennan CG, Lanzerotti LJ, Roelof EC, and Goldstein BE
Ion abundances at high northern heliolatitudes.

Force balance in Jupiter’s magnetodisk.

Mitchell DG, Mauk BH, Roelof EC, Funsten HO, McComas DJ, Gruntman M, Hesse M, Meier RR, and Scime EE
Multi-point magnetospheric reconnaissance imaging: A space physics new mission concept.

Morgan F, Yee YH, Romick GJ, Carbery JF, Swamnathan PK, Morrison D, Anderson DE, Paxton LJ, and Meng CI
The hydroxy nightglow in the mesosphere: Vibrational distribution and altitude profiles.

Auroral tomographic imaging using MSX from the far UV to the near IR.

Nicholas AC, Meier RR, Picone JM, Melendez-Alvira DJ, Ganguli GI, and Roelof EC
Imaging the plasmasphere.

A statistical study of energetic ion flux regimes in the magnetotail with the Geotail/EPIC/ICS instrument.

Ohtani S, Anderson BJ, Lui ATY, and Takahashi K
Electron flux variations observed in the tail current disruption region.

Preliminary results from the SAC-B/ISENA experiment.
Paranicas CP, and Cheng AF
Generation of field aligned beams near Io.

Paxton LJ, Morrison D, Romick GJ, Anderson DE, Fountain GH, Meng CL, and Strickland DJ
Space weather: Measuring auroral inputs from space via spectrographic imaging.

Potemra TA, and Koratova G
Global compressional oscillations of the magnetosphere observed with Viking and ground-based observatories.

Energetic particle angular distributions near Io as measured by the Galileo/EPD: Complex signatures of moon/magnetosphere interactions.

Spectrographic and imaging night stellar occultation observations from a low Earth orbit satellite.

Rust DM, Liewer PC, Davila JM, and Pizzo V
The Solar Terrestrial Relations Observatory (STEREO).

Sibeck DG, Takahashi K, Kokubun S, Mukai T, Yamamoto T, and Saito Y
Geotail observations of correlated magnetic field and plasma flow variations in the post-noon magnetosheath.

Sivjee GG, Shen D, Yee JH, and Romick GJ
The vibrational distribution of O$_2$(b $\rightarrow$ X) atmospheric bands in low, medium, and high altitude auroras.

Williams DJ, McEntire RW, Mauk BH, Roelof EC, Krimigis SM, Armstrong TP, Fritz TA, Lanzerotti LJ, Roederer JG, and Wilken B
Energetic particle distributions and bidirectional electron beams observed in the plasma torus and at Io by the Galileo energetic particles detector.

Williams DJ, McEntire RW, Mauk BH, Roelof EC, Krimigis SM, Armstrong TP, Fritz TA, Lanzerotti LJ, Roederer JG, Wilken B, and Murphy N
Results from the Galileo energetic particles detector during the second Ganymede encounter.

Yee JH, Skinner WR, Hays PB, Swaminathan PK, Zhu X, and Strobel DF
Global distribution of atomic oxygen in the mesosphere and lower thermosphere (85–105 km).

Zanetti LJ, and Gary JB
Delivery and verification of space weather products.

Zhu X, Shen Z, Eckermann SD, Bittner M, and Hirota I
Gravity wave characteristics in the middle atmosphere derived from the empirical mode decomposition method.

Zhu X, Swaminathan PK, Yee JH, Strobel DF, and Anderson D
Dynamical studies of mesopause meridional circulation and stratosphere–mesosphere exchange.

**COLLOQUIA**

The following topics were recently presented at the weekly APL colloquium:

6 Dec 1996
Galileo’s Arrival at Jupiter: Early Results, DJ Williams, APL

10 Jan 1997

17 Jan
Bose–Einstein Condensation, D Kleppner, MIT

24 Jan
The Rotation of Earth’s Inner Core, P Richards, Lamont–Doherty Earth Observatory, Columbia University

31 Jan
Quantum Computing and Error Correction, P Shor, AT&T Laboratories

14 Feb
Multispin Galaxies, V Rubin, Carnegie Institution of Washington