PUBLICATIONS

A PL staff authored or co-authored the following unclassified books and technical articles that were recently published:

Anderson SK, and Thomas ME

Aronold AG

Baker KB, Engebretson MJ, Rodger AS, and Armstrong RL


Beaulieu MR, Arifriend KT, and Jerardi TW

Biegel PE, Brown SP, Mason TC, and Poland DD

Brown JC, and Barnick GR

Buckman RG Jr, and Vetter JR

Burgen MW, and Peck A

Carter DJ

Castella FR, Guevara WJ, and Wright CAH


Chin DC

Christon SP (Univ. of MD), Cohen CS, Gloeckler G (Univ. of MD), Eastman TE (Univ. of MD), Galvin AB, Iapich FM, Ko Y-K, Lui AY, Lundgren RA, McEntire RW, Roelof EC, and Williams DJ

Christon SP (Univ. of MD), Eastman TE (Univ. of MD), Doke T (Waseda U.日本), Frank LA (JPL), Gloeckler G (Univ. of MD), Kojima H (KU), Kokubun S (N U), Lui AY, Matsumoto H (KU), McEntire RW, Mukai T (ISAS), Nylund SR, Paterson WR (UJ), Roelof EC, Saito Y (ISAS), Sotieris T, Williams DJ, and Yamamoto T (ISAS)

Coleman DR, and Simkins LS

Criss TB, South MM, and Levy LJ

Domingue DL, Lane AL, and Beyer RA

Eastman TE (Univ. of MD), Christon SP (Univ. of MD), Doke T (Waseda U.日本), Frank LA (JPL), Gloeckler G (Univ. of MD), Kojima H (KU), Kokubun S (N U), Lui AY, Matsumoto H (KU), McEntire RW, Mukai T (ISAS), Paterson WR (UJ), Roelof EC, Saito Y (ISAS), Sotieris T, Williams DJ, and Yamamoto T (ISAS)

Eviatar A, Cheng AF, Paraniczas C, Mauk BH, McEntire RW, and Williams DJ

Gavrilov BG, Erlandson RE, Kiselev YN, Meng C-I, Podgorny IM, Sobyanin DB, and Zetzer JI

Geffert DL

Gibson JP


Haase SF, Shen MY, and Wright CAH

Hannegan B, Olsen S, Prather M, and Zhu X

Hawkins SE, Cheng AF, and Lanzerotti LJ

Hawkins SE, and Cheng AF

Hawkins SE, and Cheng AF

Hawkins SE, and Lanzerotti LJ
Moor AF

Mount D (Univ. of MD), Kanungo T (Univ. of MD), N etanyahu N (Univ. of MD), Silverman R (Univ. of the District of Columbia), W a A (American Univ. niv.), and Pietak C

Nichols RA, and Conklin RE

Nose M, Iyemori T, Sugiuira M, Slavin JA, Hoffman RA, Winningham JD, and Sato N
Electron precipitation accompanying PC5 pulsations observed by the DE satellites and at a ground station, J. Geophys. Res. 103(A8), 17,587–17,604 (A ug 1998).


Pi2 pulsations observed from the Akebono satellite in the plasmasphere, J. Geophys. Res. 103(A8), 17,605–17,615 (A ug 1998).

Oslander R, and Spicer JW M

Pace DK

Pace DK

Pace DK

Paranicas CP, Cheng A F, and Williams DJ


Raney RK

Richeson KE

Ruhonemi JM, and Greenwald RA

Sedegh P (Tech. U. of Denmark), and Spall JC

Sedegh P (Tech. U. of Denmark), and Spall JC


South HM, Cronin DC, Gordon SL, and Magnani, TP

Sova RM, Lineisky M, Thomas ME, and M erk FF

Spall JC

Spall JC

Spall JC, and Cristion JA

Spall JC, Maryak JL, and A sher MS


Thomas ME, Anderson SK, Cotter T M, and Constantikies KT

Thomas ME, Anderson SK, Sova RM, Joseph RI

Thompson T

Thompson T, and Westerfield, EE

Thompson T, Levy LJ, and Westerfield EE

Vichot PA, Mix JA (Univ. of CO), Schoenborn Z (Univ. of CO), Dunn J (Univ. of CO), and Piker-May M (Univ. of CO)
Vigliotti V

Wang J-Y, and Spall JC

Localized activation of the distant tail neutral line just prior to substorm onsets, J. Geophys. Res. 103(A8), 17,651–17,669 (Aug 1998).

Watson J M

Wickenden DK, Givens RB, Oslander R, Champion JL (JHU), Oursler DA, and Kistenmacher TJ

Williams DJ, Mauk BH, and McEntire RW

Winstead NS, Young GS, and Babin SM

Woch J (Max-Planck), Krupp N (Max-Planck), Lagg A (Max-Planck), Wilken B (Max-Planck), Livi S (Max-Planck), and Williams DJ

Worley PD

Wright CAH, Haase SF, and Shen MY

Zong Q-G, Wilken B (Max-Planck), Woch J (Max-Planck), Mukai T, Yamamoto T (JAXA), Reeves GD (LANL), Doke T (Waseda Univ.), Meeza W, Williams DJ, Komukun S (STEL), and Ulalaand S

PRESENTATIONS
A PL staff were among those who gave the following unclassified presentations:

Ali SW

Ali SW

Antoine MD, Bryden W A, Ko H W, Scholl P F, Potember R S, and Cotter R J (JHU)
Real time sampling and analysis of biological biomarkers by TOF mass spectrometry, Society of Automotive Engineers Technical Paper Series, 28th Int. Conf. on Environmental Systems, Danvers, MA (13–16 Jul 1998).

Baluck M, Moor A F, and Utterback H K

Casasnovas A, and Moor A F
Military application of PEMs, Kongborg Defense & Aerospace Workshop on Commercial Components in Defense and Space, Kongborg, Norway (5 Mar 1998).

Farrell R A, Wharam J F (JHU Biomedical Eng.), and McCally RL

Hart EF
What you need to know about processing and rendering multilingual text, Int. Unicode Conf., San Jose, CA (8–11 Sep 1998).

Humm DC

Kinnison JD

McCally RL, and Farrell RA

Mehoke DS, and Ossing DA

Moor A F
PEMs' strategies for space, Space Parts Working Group, Torrance, CA (24–25 Mar 1998).

Moor A F

Moor A F

Moor A F
The use of plastic encapsulated microcircuits in space, Military Aeronautics Transportation COATS Conf. (26 Aug 1998).

Saksena A

Wickenden DK, Zeto R (Army Res. Laboratory), and D'A mico W (Army Res. Laboratory)
An extremely sensitive MEMS magnetometer for use as an orientation sensor, DARPA/ETO Principal Investigators Mtg., Durham, NC (8–10 Jul 1998).

Wickenden DK, Givens RB, Oslander R, Champion JL (JHU), Oursler DA, and Kistenmacher T J
Wing S, Sibeck DG, Frank LA, Singer HJ, Kokubun S, and Wittberger M
Changes in geosynchronous magnetic field as a function of IMF $B_z$ and solar wind dynamic pressure, 32nd COSPAR Scientific Assembly, Nagoya, Japan (12–19 Jul 1998).

Wing S, Newell PT, and Meng C-I

The following papers were presented at the IEEE International Geoscience and Remote Sensing Symposium, Seattle, WA (6–10 Jul 1998):

Beal RC, and Pichel W
Stormwatch 97–98 and beyond: Application of SAR as a high resolution scatterometer in coastal regions.

Donohue D J, Ku H-C, Thompson D R, Chapman R D, and Gotwols B C
Computational models and experimental measurements of the statistics of ocean radar backscatter.

Elfohaily T M, Thompson D R, Vandemark D, and Chapron B
Non-linear waves and the electromagnetic bias.

Jensen J R, and Raney R K
Delay-Doppler radar altimeter: Better measurement precision.

Monaldo F M, and Beal R C
Toward processing, blending, and disseminating real-time wind products from the RADARSAT SAR.

Thompson D R, and Beal R C
Mapping mesoscale and submesoscale wind fields using synthetic aperture radar.

Thompson D R, Elfohaily T M, and Chapron B
Polarization ratio for microwave backscattering from the ocean surface at low to moderate incidence angles.

The following papers were presented at the AIAA/AAS Astrodynamics Specialist Conference, Boston, MA (10–12 Aug 1998):

McAdams J V, Horwood J, and Yen C
Discovery class Mercury Orbiter trajectory design for the 2005 launch opportunity.

Near Earth Asteroid Rendezvous (NEAR) orbit phase trajectory design.

Sharer P J, Strikwerda T F, Haley DR, Ray J C, and Ossing D
MSX attitude system performance for gyro disabled operations.

The following papers were presented at the IEEE/ISIC/CIRA/ISAS '98 Joint Conference, Gaithersburg, MD (14–17 Sep 1998):

Chin D C
The simultaneous perturbation method for processing magneto-spheric images.

Hill S D, Ilenda V A, and Kleinman N L (JHU, Math & Sciences)
SPSA/SIMMOD optimization of air traffic delay cost.

Maryak J L, and Chin D
A conjecture on global optimization using gradient-free stochastics approximation.

Sedegh P (Tech. U. of Denmark), and Spall J C
Optimal sensor configuration for complex systems.

Wang I-J, and Spall J C
A constrained simultaneous perturbation stochastics approximation algorithm based on penalty functions.

The following papers were presented at the IRS 98 International Radar Symposium, Munich, Germany (16 Sep 1998):

Castella F R, Guevara W J, and Wright C A H
Inter-facial alignment of sensors with multi-phased array antennas.

Haase S F, Shen M Y, and Wright C A H
A constant false alarm rate approach for automatic target tracking.

Wright C A H, Haase S F, and Shen M Y
Techniques for improving target altitude estimations in an air target tracking system.

The following papers were presented at the Mid-Atlantic Probability and Statistics Day 1998 Conference, U.S. Naval Academy, Annapolis, MD (3 Oct 1998):

Chin D C
Simultaneous perturbation stochastic approximation for a non-linear regression problem.

Hill S D, and Spall J C
Reliability estimates for complex systems.

Maryak J L, and Chin D C
A conjecture on global optimization using gradient-free stochastic approximation.

Spall J C
The information matrix: Statistical applications and efficient computation in general problems.

Spall J C
Gaussian-based estimation in a non-Gaussian world: What can we say?

COLLOQUIA
The following topics were recently presented at the weekly APL Colloquium:

6 November 1998
The Search for Neutrino Mass at Super-Kamiokande, GW Sullivan, University of Maryland

13 November 1998
Mathematics in Bronze and Stone. C Ferguson (author) and H Ferguson, Institute for Defense Analysis

20 November 1998
Deak Parsons: The Proximity Fuze and the Atomic Bomb, A C Christian, Former Navy Historian

4 December 1998
Future Changes in Electronics, RC Pfahl, Jr, Motorola, Inc.

11 December 1998

18 December 1998
Future Strategic Issues, DM Bushnell, NASA Langley Research Center