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at Goddard Space Flight Center
in Fiscal Year 1994**



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13. ABSTRACT (Maximum 200 words) This publication is a compilation of scientific and technical material that was researched, written, prepared, and disseminated by the Center's scientists and engineers during FY94. It is presented in numerical order of the GSFC author's sponsoring technical directorate; i.e., Code 300 is the Office of Flight Assurance, Code 400 is the Flight Projects Directorate, Code 500 is the Mission Operations and Data Systems Directorate, Code 600 is the Space Sciences Directorate, Code 700 is the Engineering Directorate, Code 800 is the Suborbital Projects and Operations Directorate, and Code 900 is the Earth Sciences Directorate. The publications database contains publication or presentation title, author(s), document type, sponsor, and organizational code. This is the second annual compilation for the Center.					
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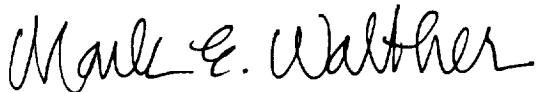
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PREFACE

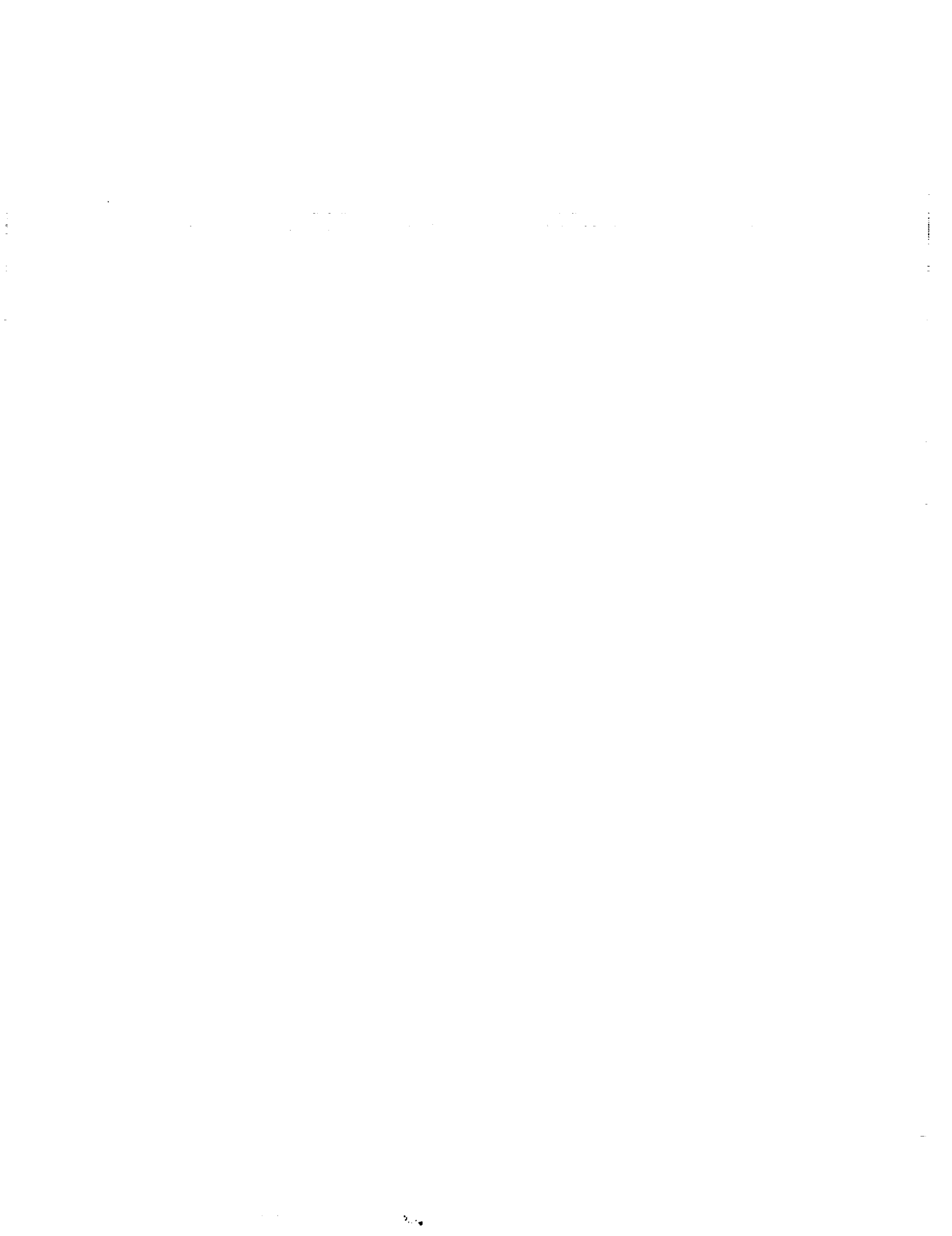
This Technical Memorandum is a compilation of the research and technology output—in a variety of forms—of NASA Goddard Space Flight Center for fiscal year 1994.

Our intent in presenting this information is to continue to establish a greater awareness of the broad scope of scientific and engineering activity at the Center, and its importance to the worldwide technical communities and disciplines to which we contribute. Technical information is both the *product* and the *service* provided by GSFC scientists and engineers. It has long been a priority that NASA's Scientific and Technical Information (STI) Program capitalize upon this resource by "provid(ing) for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof..." Our division fulfills these programmatic responsibilities by providing publication, graphics, photography, conference support, and printing services to GSFC's technical community.

We hope this publication will serve as a tool for collaboration and cooperation among our scientists and engineers, and as baseline information for future efforts of this kind. I welcome your comments and suggestions on this publication, and hope you will find it useful.



Mark E. Walther, Chief
Information Management Division



INTRODUCTION

The management of research and technology within our Directorates is diverse, but the publication element is consistent in one respect. By Agency and Center regulation, there must be technical management approval prior to external publication and presentation. At GSFC, this approval is provided via a single form, the *Request for Approval for Publication and Release* (GSFC 25-42).

Use of the GSFC 25-42 is required for all technical information leaving the Center, including NASA formal reports, professional journal articles, other publications such as book chapters and other scholarly works, and technical presentations at conferences, symposia, and meetings. Our Division retains these forms after the sponsoring Directorate has granted its approval. The information contained in this Technical Memorandum is an assemblage of these 25-42 forms.

This is the second year we have sought to compile and publish this information, although we have received and retained GSFC 25-42 forms for many years. In response to a Headquarters request for STI statistics (sponsored by OMB), we have recently established database support to systematically capture GSFC 25-42 data. We will publish this information on an annual cycle.

One category of information captured is listed as "sponsor." This field is left blank if the publication is sponsored by NASA; if it is destined for release at an event or in a publication sponsored by an external organization, it is assigned a 6-digit sponsor code. A table of sponsor codes appears as an appendix.

The document type is indicated by a two-letter abbreviation in the third column. These abbreviations are: PR = presentation; JA = journal article (or proceedings paper); TM = NASA Technical Memorandum; RP = NASA Reference Publication; TP = NASA Technical Paper; CP = NASA Conference Publication (full proceedings); GD = general document; MW = miscellaneous work (e.g., book chapter, letter to the editor). Papers that were presented both orally and in a proceedings are listed once and have entries in both the "type" and "sponsor" columns.

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**SCIENTIFIC AND TECHNICAL PUBLICATIONS
AND PRESENTATIONS:
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Title	Author	Doc. Type	Sponsor	NASA Code
GSFC Summer Internships	KRIEGER	MW	NASA	120
Scientific and Technical Publishing at GSFC in FY92 and FY93	TECHNICAL INFORMATION SERVICES BRANCH	TM	NASA	253
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An Evaluation of the Radiation Tolerance of a 32-Bit Microprocessor for Space Applications	SHARMA;SAHU	PR	IEEE	311
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Outgassing Data for Selecting Spacecraft Materials	CAMPBELL, JR.;SCIALDONE	RP	NASA	313
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Monitoring Molecular Contamination on Optics Utilizing a Temperature-controlled Quartz Crystal Microbalance (TQCM)	MITCHELL	PR;CP	SPIE	400
Using a Temperature-controlled Quartz Crystal Microbalance in a Space Equipment Clean Room to Monitor Molecular Contamination	MITCHELL	PR;CP	SSC	400
A Program Control Systems for an In-House NASA Project: Tropical Rainfall Measuring Mission	PENNINGTON;MAJEROWICZ	PR	PMA101	490
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<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
A Systems Analysis to Improve the Organizational Processes Using a Total Quality (process) and a Viable System Model	GRANATA;ORAN;BEYER;MAYER;MACKEY;YOST;Van NOSTRAND;KARLIN;BAGG	CP;PR	NCOSE	504
Renaissance Architecture for Ground Data Systems	PERKINS;ZEIGENFUSS	PR;CP	SP-OPS	504
A Risk Management Program for a Task Order Contract	RAMCHANDANI;LIGON	PR;CP	NCOSE	504
Twenty-fifth Annual Precise Time and Time Interval Meeting (PTTI)	SYDNOR	CP	NASA	504
Use of Performance Evaluation Tools in System Engineering	VALLONE	PR;CP	NCOSE	504
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A Packet Switches Communications Systems for GRO	HUSAIN;WEN;VADLAMUDI; VALENTI	PR	NETTEC	514
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The Requirements Generation System: A Tool for Managing Mission Requirements	SHEPPARD	PR	SP-OPS	520

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Lessons Learned Supporting On-board Solid-state Recorders	GREBOWSKY;SHI;MAO;CLOTWORTHY	PR;CP	SP-OPS	521.2
VLSI Technology for Smaller, Cheaper, Faster Return Link Systems	NANZETTA;SHUMAN;BENNETT;DOWLING;WELLING;SOLOMON	CP	SP-OPS	521.2
Spacecraft Data Simulator for the Test of Level Zero Processing System	SHI;GORDON;NGUYEN;MIRCHANDANI	PR;CP	SP-OPS	521.2
A Second Generation 50 Mbps VLSI Level Zero Processing System Prototype	SPECIALE;BENNETT;SHI;HARRIS	PR;CP	SP-OPS	521.2
Domain Engineering - A Parallel Process Model	BOOTH;BOWEN	PR	GMU	522
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Optimizing Sun Avoidance Maneuvers for Spinning Spacecraft	CHU;KEAT	PR;CP	SP-OPS	550
Improving Space Mission Operations with In-Flight Attitude Sensor Calibration	DAVIS;HASHMALL	PR	SP-OPS	550
Accuracy Assessment of TDRSS-Based TOPEX/Poseidon Orbit Determination	DOLL;OZA;COX;BOLVIN;SAMII	PR	COSPAR	550
Earth Observing System (EOS) AM Navigation and Control Using the TDRSS Onboard Navigation System (TONS)	FOLTA;HERBERG	PR	AAS-4	550

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Autonomous Navigation Using the TDRSS Onboard Navigation System (TONS)	GRAMLING;FOLTA;LONG	PR	COSPAR	550
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Creating a Self-Improving Operation	LEVITT, et al.	PR;CP	SP-OPS	550
A Proven Approach for More Effective Software Development and Maintenance	McGARRY;HALL;SINCLAIR	PR	SP-OPS	550
Software Engineering Workshop Review	McSHARRY	JA	IEEE	550
Magnetometer-Only Attitude and Rate Determination for a Gyroless Spacecraft	NATANSON;CHALLA; DEUTSCHMANN;BAKER	PR;CP	SP-OPS	550
Training and Simulation for Orbit Support of New Missions by the Goddard Space Flight Center Flight Dynamics Division	OZA;NICHOLSON;ROBERTS; LORAH;SCAGLIARINI;BURTON; SAMII;DOLL;CUEVAS; BECKMAN;MARR;VAUGHN	PR;CP	SP-OPS	550

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Landsat-4 Orbit Determination Using TDRSS	OZA;NIKLEWSKI;DOLL; MISTRETТА;HART	PR	COSPAR	550
Goddard Space Flight Center Flight Dynamics Division Ascent Support of Space Shuttle Rendezvous Missions	POWERS;HEPFER;CAPPELLARI; LYNCH;MARR;VAUGH	PR;CP	SP-OPS	550
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Orbit Determination Covariance Analysis for Mission Planning	YEE;OZA;MISTRETТА;BECKMAN; HART	PR	SP-OPS	550

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Estimating Attitude Propagation Parameters	CHU;SEDLAK;WHEELER	PR;CP	FDDSYM	553

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Evaluation of Semiempirical Atmospheric Density Models for Orbit Determination Applications	COX;FEIERTAG;OZA;DOLL	PR;CP	FDDSYM	553
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Improved Solution Accuracy for TDRSS-Based TOPEX/Poseidon Orbit Determination	DOLL;MISTRETTA;HART;OZA;COX;NEMESURE;BOLVIN;SAMII	PR;CP	FDDSYM	553
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Mission Design of the Clementine Space Experiment	RICHON;KAUFMAN	PR;CP	AAS;AIAA	553
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ASCA Observations of Active Galactic Nuclei	HOLT	PR	COSPAR	600

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High-Energy Gamma-Ray Emission from the Interstellar Clouds in Orion	DIGEL;BERTSCH;HUNTER; FICHTEL;HARTMAN;THOMPSON; DINGUS;ESPOSITO; SREEKUMAR;MATTOX	JA	AAS	660
High-Energy Gamma Rays from the Intense January 31, 1993, Gamma-Ray Burst	DINGUS;BERTSCH;FICHTEL; HARDING;HARTMAN;HUNTER; MATTOX;SREEKUMAR; THOMPSON	JA	APJ	660
A Drift Chamber Detector for a Gamma-Ray Telescope	DINGUS;ESPOSITO;MUKHERJEE; BERTSCH;CUDDAPAH;FICHTEL; HUNTER;HARTMAN;THOMPSON	PR;CP	APS	660
EGRET Observations of the South Galactic Latitudes $-10^\circ < b < -30^\circ$	DINGUS;ESPOSITO;SREEKUMAR; BERTSCH;FICHTEL;HARTMAN; HUNTER;THOMPSON;MATTOX	PR	AAS	660
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Evolution of Gamma-Ray Loud Active Galactic Nuclei	FICHTEL;vonMONTIGNY;	JA	APJ	660
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Analysis of Frozen Lakes in Northern Montana and Implications for Climate Studies	HALL;FAGRE;KLASNER; LINEBAUGH;LISTON	JA	JGR	974

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Determination of Actual Snow Cover Using Landsat TM and Digital Elevation Model Data in Glacier National Park, MT	HALL;FOSTER;CHIEN;RIGGS	JA	POREC	974
Mapping Snow by Elevation Zone in Glacier National Park, Montana	HALL;FOSTER;RIGGS;CHIEN	JA	CPS	974
Mapping Snow by Elevation Zone in Glacier National Park, Montana	HALL;FOSTER;RIGGS;CHIEN	CP	CPS	974
Development of Methods and Analysis of Errors for Mapping Snow Cover Using Moderate Resolution Imaging Radiometer (MODIS) Data	HALL;RIGGS;SALOMONSON	JA	RSE	974
Glaciological Observations on Bruariokull, Iceland Using Landsat TM and ERS-1 SAR Data	HALL;WILLIAMS;SIGURDSSON	PR;JA	ISCRY;AOG	974
Diurnal Observations of Soil Moisture with Passive Microwave Radiometers	JACKSON;ALEKSA;SWIFT;O'NEILL;KOSTOV	CP	IGARSS	974
Coupling Mesoscale Meteorology and Hydrology Simulation Models: A Strategy for Investigating Land/Atmosphere Interactions	JASINSKI;KUMAR;WETZEL;DUFFY;DRAVES;ENGMAN	PR;CP	AGU	974

Title	Author	Doc. Type	Sponsor	NASA Code
Coupling Mesoscale Meteorology and Hydrology Simulaton Models: A Strategy for Investigating Large-Scale Land/Atmosphere Interactions	JASINSKI;KUMAR;WETZEL; ENGMAN	PR	IGCIP	974
Analysis of Supplemental PILPS Simulations	KOSTER	PR	GEWEX	974
The Relative Contributions of Land and Ocean Processes to Precipitation Variability	KOSTER;SUAREZ	JA;PR	JGR;GEWEX	974
An Energy Balance Model of Lake-Ice Evolution	LISTON;HALL	JA	JOG	974
Microwave Soil Moisture Prediction Through Corn in WASHITA '92	O'NEILL;CHAUHAN;JACKSON; LeVINE	CP	IGARRS	974
SAR Terrain Correction for Improved Soil Moisture Estimation in a Mountain Watershed	O'NEILL;HSU;SEYFRIED	CP	IGARSS	974
Microwave Brightness Temperature Measurements Over Bare Soil Surfaces	OWE	PR	ESSRS	974

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Surface Moisture Monitoring by Passive Microwave Techniques in Semi-Arid Environments	OWE;van de GRIEND	PR;CP;GD	UNESCO	974
Measurements of Atmospheric Water Vapor Using a Compact AlGaAs Laser Based DIAL Instrument	RALL;ABSHIRE;REUSSER; HUMPHREY	PR; CP	CLEO	974
A Snow Index for the Landsat TM and MODIS	RIGGS;HALL;SALOMONSON	PR,JA	IGARSS	974
Effect of the Land Surface Formulation on Climate Variability in a General Circulation Model	SCOTT;KOSTER;ENTEKHABI; SUAREZ	JA	JOC	974
Using Remotely Sensed Data to Estimate Surface Hemispherical Reflectance, Albedo and Absorbed Photosynthetic Active Radiation	TOLL;SHIREY;KIMES	CP;PR	IGARRS; IEEE	974
Into the 2nd Century of World Glacier Monitoring: Prospects and Strategies	WILLIAMS, JR.;HALL	JA	UNESCO	974
Intercomparison of Single Frequency Methods for Retrieving a Vertical Rain Profile from Airborne or Spaceborne Radar Data	IGUCHI;MENEHINI	JA	JAOT	975

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Effect of Backscatter Enhancement from Discrete Scatterers Over a Rough Surface	LANG;LeVINE;CHAUHAN	PR	IEEE;URSI	975
Validation of a Discrete Scatter Model for Microwave Scattering from Corn	LeVINE;CHAUHAN;LANG	PR	PIERS	975
Status of ESTAR Validation: Results of WASHITA-92	LeVINE;JACKSON;KAO;GRIFFIS;SWIFT	PR;CP	IGARRS	975
Processing Strategies for the TRMM Radar	MENEGHINI;IGUCHI	PR	CRL	975
TRMM Radar Team Meeting Report	MENEGHINI;KUMAGAI	PR;GD	TRMM	975
Description of a Radar/Radiometer Method and Its Application to Airborne Measurements of Stratiform Rain	MENEGHINI;WANG;KUMAGAI;IGUCHI	PR;CP	IEEE; IGARSS	975
An Airborne Millimeter-Wave Imaging Radiometer for Cloud, Precipitation and Atmospheric Water Vapor Studies	RACETTE;ADLER;GASIEWSKI;JACKSON;WANG;ZACHARIAS	JA	JAOT	975

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
TMI, A Microwave Radiometer for Precipitation from Satellite	SHIUE	PR	ISSRS	975
An Overview of the Applications of Microwave Radiometry for Remote Sensing of the Earth	SHIUE	PR	UL	975
Microwave Remote Sensing of the Earth	SHIUE	PR	NCU	975
Some Features Observed by the L-Band PBMR Over the Konza Prairie During 1985-1989	WANG	JA	JGR	975
Simultaneous Measurements of Atmospheric Water Vapor with MIR;Raman Lidar and Rawinsondes	WANG;MELFI;RACETTE; WHITEMAN;CHANG;FERRACE; EVANS;SCHMIDLIN	JA	JAM	975
Retrieval of Water Vapor Profiles Using Measurements from a Millimeter-Wave Imaging Radiometer	WANG;RACETTE;CHANG	PR	IEEE; IGARSS	975
Retrieval of Water Vapor Profiles with Millimeter-Wave Imaging Radiometer Under Cloudy Condition	WANG;SPINHIRNE;RACETTE; CHANG;HART	PR	AGU	975

<u>Title</u>	<u>Author</u>	<u>Doc. Type</u>	<u>Sponsor</u>	<u>NASA Code</u>
Remote Sensing of Precipitation From Combined Radar and Multi-Frequency Radiometric Measurements and from VLF Sferics Measurements in Support of NASA's Tropical Rainfall Measuring Mission	WEINMAN	PR	U MUN	975
Maritime Precipitation Distributions Determined from Airborne Radar and Multi-Frequency Radiometric Measurements	WEINMAN;SCHOLS	PR	IEEE;IGARSS	975

APPENDIX: SPONSOR ABBREVIATION LIST

SPONSER ABBREVIATION LIST

2COMP Second Compton Symposium
 2TOP Second Topical Meeting
 23CRC 23rd Cosmic Ray Conference
 23SAE 23rd International Conference on Environmental Systems
 44IAC 44th International Astronautical Conference
 44IAF 44th Conference of the International Astronomical Federation

A

A&A-L Astronomy and Astrophysics-Letters
 AA Astronomy and Astrophysics
 AADM Adjoint Applications in Dynamic Meteorology Workshop
 AAS American Astronomical Society
 ABWK 1993 NASA Aerospace Battery Workshop
 AC International Aerosol Conference
 ACE Advances in Cryogenic Engineering
 ACS American Chemistry Society
 ADA-S NASA Ada User's Symposium
 ADASS Astronomical Data Analysis Software and Systems
 AEAP AEAP Annual Meeting
 AFP "Current Topics in Astrofundamental Physics" course
 AFWK Dahlem Workshop in Aerosol Forcing
 AGC-SEM Alaskan Glacier Changes Seminar
 AGN Testing that AGN Paradigm
 AGN-2 X-Ray Emission from AGN/Cosmic X-Ray Background Workshop
 AGR Agronomy Journal
 AGSMP Physics of Active Galaxies Symposium
 AGU American Geophysical Union
 AGU-M AGU Monograph - Remote Sensing of Sea Ice
 AIAA American Institute of Aeronautics and Astronautics
 AIAATH AIAA Thermophysics Conference
 AIAOS Astronomical Institute of the Academy of Sciences
 AIBS AIBS Symposium
 AICHE AICHE National Heat Transfer Conference
 AIOP American Institute of Physics
 AIRSEA Air-Sea Interface Symposium
 AJOP American Journal of Physics
 AM-S 26th Aerospace Mechanisms Symposium
 AMATHS American Mathematical Society
 AMC Astrophysical Masers Conference
 AMS American Meteorological Society
 AMS-M American Meteorological Society Monograph Series
 ANJ Astronomical Journal
 ANS-J Astronomical Society of Japan
 A-P Asia - Pacific Radio Telescope Consortium Meeting
 AO Applied Optics
 AOG Annuals of Glaciology
 AOP Annuals of Physics
 APC Astrophysics Conference
 APCA Aspen Physics Conference on Astrophysics
 APJ Astrophysical Journal
 APJ-S Astrophysical Journal-Supplements
 APJL Astrophysical Journal Letters
 APL Applied Physics Letters
 APL-JH Applied Physics Laboratory, Johns Hopkins University
 APM Astrophysics Meeting on Clusters of Galaxies
 APP APS Topical Conference on Atomic Processes in Plasmas
 APS American Physical Society

SPONSER ABBREVIATION LIST

AR	8th Conference on Atmospheric Radiation
ARG	Capa de Ozone Y Radiacion Solars, Argentina Symposium
ARGPS	Argentine Physical Society
ARM	Andre Robert Memorial Symposium
ARSC	1st International Airborne Remote Sensing Conference and Exhibition
ASA	American Society of Agronomy
ASC	Astronomical Software Conference
ASE	Association of Space Explorers
ASGC	Arkansas Space Grant Consortium
ASNT	American Society for Nondestructive Testing, Spring Conference
ASR	Advances in Space Research
ASSL	Advanced Solid State Lasers
AST/COS	Particle and Nuclear Astrophysics and Cosmology in the Next Millenium
AST105	105th Meeting of the Astronomical Society
ASTDAT	3rd Conference on Astronomical Data Analysis Software and Systems
ASTPAC	Astronomical Society of the Pacific
ASU	Appalachian State University
ASW-US	International Conference AWS-USA & Paton Elect. Welding Inst.-USSR
AT-O	Atmosphere-Ocean
ATMARS	Workshop on the Atmosphere of Mars
ATU CC	ATU Chapman Conference
AUAS	Austria Academy of Sciences
AUB U	Auburn University

B

BAAS	Bulletin of the American Astronomical Society
BAMS	Bulletin of the American Meteorological Society
BFGG	Boreal Forests and Global Change Symposium
BLM	Boundary Layer Meteorology
BIO-S	Bio Science
BOC	7th BOC Priestley Conference
BRI	Bartol Research Institute
BSYMRS	Brazilian Symposium of Remote Sensing
BU	Beijing High-Energy Conference

C

CACGP	
CAPRI	CAPRI Cosmic Microwave Background Workshop
CAPT	International Conference on Applications of Photonic Technology
CAS	Canadian Astronomical Society
CASE	CASE-92, Manchester, England
CC	Conference on Climate Change
CCPO	Seminar at Center for Coastal Physical Oceanography
CCRS	Canada Center for Remote Sensing
CDW	Climate Diagnostics Workshop
CEBAF	Continuous Electron Beam Accelerator Facility (CEBAF)
CEC	Cryogenic Engineering Conference
CH-AM	Chinese-American Professionals Association Annual Conference
CH-SW	Coronal Heating, Stanford Workshop
CHAMMP	Workshop for the Numerical Solution of PDEs in Spherical Geometry
CHAP-2	Chapman Conference on Auroral Plasma Dynamics
CHAP94	Fall Chapman Conference, Water Vapor in the Climate System
CHAPMN	Chapman Conference, Micro/Meso Scale Phen. in Space Plasmas
CHKINE	3rd International Conference on Chemical Kinetics
CHPLT	Chemical Physics Letters
CIT	California Institute of Technology

SPONSER ABBREVIATION LIST

CJRS	Canadian Journal of Remote Sensing
CLEO	Conference on Lasers and Electro-Optics
CLIMCON	Climatology Conference
CLUSTR	CLUSTER Steering Committee Implementation Working Group
CMA	China Meteorological Administration
CMDA	Celestial Mechanics and Dynamical Astronomy
CMES	Center of Marine Earth Science
CPD	Conference on Chondrules and the Protoplanetary Disk
COA	Comments on Astrophysics
COL	Conference on Lasers
COS-94	COSPAR Colloquim
COSPAR	COSPAR World Space Congress
CPA	Conference on Carbonaceous Particles in the Atmosphere
CPS	3rd Circumpolar Symposium on Remote Sensing of Arctic Environment
CRC	CRC Monograph
CRYOC	Cryocooler Conference
CRYOWP	Space CryoWorkshop
CSA	Canadian Space Agency
CSC	Centre for Scientific Culture
CSS	Cognitive Society Seminar
CU	Columbia University
CVCONF	Conference of Climate Variations
CW	Cosmic Winds Conference

D

DAW	Data Assimilations Workshop
DC	Dartmouth College, Hanover, NH
DCC	Data Compression Conference
DEE	Department of Electrical Engineering, Seminar at University of Idaho
DLR	DLR Colloquium
DOC	Department of Commerce, Lecture
DPA	Department of Physics & Astronomy, Haverford College, PA

E

EARTH	Earth Surfaces Processes in Land Forms
EBRS	Extragalactic Background Radiation Symposium
ECR	European Cosmic Ray Symposium
EFEDA	EFEDA Campaign Results, Workshop
EFSUM	Enrico Fermi Summer School
EGS	European Geophysical Society
EGS-A	European Geophysical Society Assembly, Edinburgh, Scotland
EHS	Edgemont High School, SD
EISYC	European International Space Year Conference
EL	Analysis of Emission Lines
ENDVR	Endeavour
EOCW	Encyclopedia of Climate and Weather
EOS	Earth Observing System
EOS-ST	EOS Interdisciplinary Science Team
ES	International Conference on Environmental Systems
ESA	European Space Agency
ESAPP	Expert Systems with Applications
ESLAB	Eslab Symposium, Killarney, Ireland
ESO	European Southern Observatory, High Resolution Imaging by Interferometry
ESO-2	ESO/EIPC Workshop, Elba, Italy
ESSRS	European Symposium on Satellite Remote Sensing
ESTAR	Evolution of Star Forming Regions

SPONSER ABBREVIATION LIST

ESTEC	Spacecraft Guidance and Control Conference
ETC	Eighth Toyota Conference
F	
FANGIO	FANGIO Workshop
FBMTG	1994 Winter Meeting of Study of Forest Biology
FBPP	International Conference on Few Body Problems in Physics
FDDSYM	1994 FDD Flight Mechanics/Estimation Theory Symposium
FGW	Forum on Global Warming
FI	International Conference on Flow Interaction
FIAS-C	(FIAS) Conference, Centre de Formation International Aeronautique et Spatiale
FMI	Finnish Meteorological Institute
FRONTIERS	Frontiers 95
FSU	Florida State University
FTCOM	International Symposium on Fault Tolerant Computing
G	
G	Geology
GBC	Global Biogeochemical Cycles
GCNUCL	Nuclei of Normal Galaxies
GCS	5th Conference on Global Change Studies
GEOSCI	Department of Geological Sciences
GEWEX	European Conference on the Global Energy and Water Cycle
GFM	Types & Characteristics of Data for Geomagnetic Field Modeling
GGAGW	Geophysical/Geochemical Aspects of Global Warming, CRC Press (1992)
GIS	Conference on Integrating GIS and Environmental Modeling
GISS-S	GISS Seminar
GJI	Geophysical Journal International
GK	International Conference on Gas Kinetics
GMU	George Mason University
GO&CL	Workshop for the Coordination of Ground-based Observations and Cluster
GRAST	Gamma-ray Astrophysics
GR/NCC	Gamma Rays/Neutrino Cosmology Conference
GRB	Gamma-Ray Burst Workshop
GRC	Gordon Research Conference—Solar MHD
GRL	Geophysical Research Letters
GRS	Gamma Ray Sky Conference
GRSYMP	Gamma Ray Symposium
GSC	General Sciences Corporation
GSW	Global Soil Wetness Workshop
GTSS	Grand Teton Summer School
H	
HAS	Helio- and Astero-Seismology from the Earth and Space
HAZMIT	US-Taiwan Multiple Hazard Mitigation Symposium
HEA	High-Energy Astrophysics
HEA	Recent Advances in High Energy Astronomy Symposium
HEASTR	High Energy Astrophysics (Meeting)
HKU	Hong Kong University
HOTSTR	Hot Stars in the Halo, Schenectady, NY
HPCN	High Performance Computing and Networking
HRCOMP	International Workshop on High-Resolution Compton Scattering
HRMS	13th Colloquium on High Resolution Molecular Spectroscopy
HST	HST Workshop, Baia Chia, Sardinia, Italy
HSVLP	The Harlow Shapley Visiting Lectureship Program, Penn State

SPONSER ABBREVIATION LIST

HTRANS National Heat Transfer Conference
 HYMAN 2nd Annual Mid-Atlantic Hyman Factors Conference

I

IACG Working Group 2 - Meeting on Data Exchange
 IAF IAF Congress, Montreal, Canada
 IAP Institute of Applied Physics
 IAPG Interagency Advanced Power Group
 IAU International Astronomical Union
 IAUARG IAU General Assembly, Buenos Aires, ARG
 IAUHOA International Astronomical Union Highlights of Astronomy
 ICAP XIII International Conference on Atomic Physics
 ICARUS Icarus
 ICPC Informal Conference on Photochemistry
 ICR International Conference on Radiometry
 ICS International Conference on Substorms
 ICSTG International Conference on Space, Time and Gravitation
 ICTP International Centre for Theoretical Physics
 IEEE Institute of Electrical and Electronics Engineering
 IEEE-2 IEEE Conference on Plasma Science
 IEEE-J IEEE Journal of Quantum Electronics
 IEPC International Electronics Packaging Conference
 IERS International Earth Rotation Service
 IES IES 38th Annual Meeting Technical Excellence in Global Economy
 IFAC Symposium on Robust Control Design
 IFAC2 Symposium on Automatic Control in Aerospace
 IGARSS International Geoscience and Remote Sensing Symposium
 IJC Isreal Journal of Chemistry
 JMPEP International Journal of Microcircuits and Electronic Packaging
 IJOC International Journal of Climatology
 IJRS International Journal of Remote Sensing
 ILRC International Laser Radar Conference
 IM Institute of Mechanics
 IMAC International Modal Analysis Conference
 INSTAR INSTAR, Boulder, CO
 IO International Conference on IO
 IOA Institute of Astronomy
 ION Institute of Navigation
 IPNP Intersections of Particle and Nuclear Physics
 IRAST Infrared Astronomy with Arrays
 IRIS Incorporated Research Institution for Seismology
 IRPHYS 5th International Conference on Infrared Physics
 ISAS-GT ISAS Workshop on Geotail
 ISC International Scientific Colloquium
 ISCHEM International School of Chemistry
 ISCRY International Symposium on the Role of the Cryosphere in Global Change
 ISDC International Space Development Conference
 ISEEC International Symposium on Electromagnetic Environments and Consequences
 ISMM ISMM Conf. on Computer Applications in Design, Simulation and Analysis
 ISOP International School of Physics-LaJolla
 ISPRS International Symposium "Physical Measurements and Signatures in Remote Sensing"
 ISRAM International Symposium on Robotics and Manufacturing
 ISREM International Symposium on Resource and Environmental Monitoring
 ISS Irvine Software Symposium, Irvine, CA
 ISSFD International Symposium of Spacecraft Flight Dynamics
 ISSM International Symposium on Software Metrics
 ISSMO International Symposium on Space Mission Operations and Ground Data Systems

SPONSER ABBREVIATION LIST

ISSRS	International Symposium on Satellite and Remote Sensing
ISSS	International School of Space Science
ISU	Iowa State University
ISY	International Space Year
ITC	International Telemetric Conference
IUTAM	IUTAM Symposium
IWNT	International Workshop on Neutrino Telescopes

J

JAE	Journal of Arid Environments
JAM	Journal of Applied Meteorology
JAOT	Journal of Atmospheric & Oceanic Technology
JAPHYS	Journal of Applied Physics
JAR	Journal of Atmospheric Research
JAS	Journal of Atmospheric Sciences
JATP	Journal of Atmospheric and Terrestrial Physics
JCP	Journal of Chemical Physics
JCTHERM	Journal of Chemical Thermodynamics
JEMT	Journal of Engineering Materials and Technology
JGB	Journal of Global Biochemical
JGCD	Journal of Guidance and Control and Dynamics
JGD	Journal of Guidance and Dynamics (AIAA)
JGE	JGE
JGG	Journal of Geomagnetism and Geoelectricity
JGR	Journal of Geophysical Research
JGR-A	Journal of Geophysical Research - Atmospheres
JGR-O	Journal of Geophysical Research - Oceans
JGR-P	Journal of Geophysical Research - Planets
JOAS	Journal of the Astronautical Sciences
JOC	Journal of Climate
JOCE	Journal of Coastal Engineering
JOCR	Journal of Coastal Research
JOFM	Journal of Fluid Mechanics
JOG	Journal of Glaciology
JOP-A	Journal of Physics-A
JOPS	Journal of Power Sources
JOPT	Journal of the Optical Society
JORS	Journal of Remote Sensing
JOSR	Journal of Spectrometry and Radioactive
JPCHEM	Journal of Physical Chemistry
JPL	Jet Propulsion Laboratory
JPO	Journal of Physical Oceanography
JPP	Journal of Photochemistry and Photobiology
JSR	Journal of Spacecraft and Rockets
JSRS	Journal of Surtsey Research Society, Progress Report Volume X
JTAC	Journal of Theoretical and Applied Climatology

K

KAS	Kansas Academy of Sciences
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L

L-D	Lamont-Doherty Earth Observatory Student Seminar Series
LAEL-OPS	Lasers and Electro-Optics
LAGEOS	LAGEOS, Los Alamos, NM
LAHRS	Laboratory and Astronomical High Resolution Spectra

SPONSER ABBREVIATION LIST

LAO	Limnology and Oceanography
LASER	Laser Tech Briefs
LCSYM	International Symposium on the Life Cycles of Extra-tropical Cyclones
LDEF	LDEF Third Post-Retrieval Symposium
LIEGE	31st LIEGE Colloquium: Gravitational Lenses in the Universe
LPSC	Lunar and Planetary Science Conference
LR	International Workshop on Laser Ranging
LRPA	International Conference on Laboratory Research for Planetary Atmosphere
LTD5	5th International Workshop on Low-Temperature Detectors

M

MAGN	Magnetopause Workshop
MARCEL	7th Marcel Goossman Meeting on General Reflectivity
METEOR	Meteoritics
MIMR	International MIMR Meeting
MIT	Massachusetts Institute of Technology
MITSP	MIT Conference on Physics of Space Plasmas
MP	Mesoscale Processes Conference
MPI	Max Planck Institute
MRI	Meteorology Research Institute
MRS	UN/China/ESA Workshop on Microwave Remote Sensing
MRWF	Medium Range Weather Forecast
MSFC	Marshall Space Flight Center
MSSTAR	Evolution of Massive Stars
MSU	Michigan State University
MUSCLE7	7th International MUSCLE Conference
MWR	Monthly Weather Review

N

NAG	The Nearest Active Galaxies, Inst. Historical Studies/Spanish Council of Research
NASA-T	NASA Technical Memorandum
NASAC	NASA Conference
NASAPS	NASA Pressure System Seminar
NASATT	NASA Center for Terahertz Technology
NASM	National Air & Space Museum
NAST-C	NASTRAN Users Colloquium
NAST-E	NASTRAN Users Experience
NATO	NATO Advanced Workshop
NATO-ASI	NATO ASI Series
NATURE	Nature
NAV	Navigation
NCAR	National Center for Atmospheric Research
NCCTC	NCC Technology Conference
NCGC	Nuclear Chemistry Gordon Conference
NCOSE	National Council of Systems Engineering
NCSC	NCSC and NIST
NCU	National Central University, Taiwan
NEPCON	NEPCON West '94, Anaheim, CA
NEWSCH	Newport School
NGW	National Geomagnetic Workshop
NHAM	Natural Hazard Assessment and Mitigation: The Unique Role of Remote Sensing
NIM	Nuclear Instruments and Methods
NLASTR	Advances in Non-Linear Astrodynamics
NNV	Nature, News and Views
NORDIC	Nordic Hydrology
NPA	International Conference on Neutrino Physics and Astrophysics

SPONSER ABBREVIATION LIST

NS New Scientist
NSIA National Security Industrial Association
NSO National Solar Observatory
NSO/SP NSO/SP Summer Workshop
NT Neptune and Triton
NTC Networks Technical Conference
NU Northwestern University
NWP Workshop on Numerical Weather Prediction in Tropics at NCMRWF, New Delhi, India

O

OBS/CLUS Workshop for Coordination of Ground-based Observations and Clusters
ODU Old Dominion University
OE Optical Engineering
OMHPL Optical Materials for High Power Lasers
ONR ONR High Resolution Remote Sensing Program Workshop
OOPSLA 1994 ACM Conference Object-Oriented Programming Systems Languages and Applications
OPTCOM Optics Communication
OPT-L Optics Letters
OPTSOC Optical Society of America
OSU Ohio State University
OU Oxford University
OUP Oxford University Press
OZONE Quadrennial Ozone Symposium

P

PAG Pure and Applied Geophysics
PASJ Publications of the Astronomical Society of Japan
PASP Publications of the Astronomical Society of the Pacific
PBM TOS Pacific Basin Meeting
PCHEM Physics and Chemistry of Interstellar Molecular Clouds Meeting
PDSWK Workshop on Polar Data Sets
PE Physics Essays
PEC 1st World Conference on Photovoltaic Energy Conversion
PIERS Progress in Electromagnetics Research Symposium
PIP-W Physics of Isolated Pulsars Workshop
PLASMA Interrelationship Between Plasma Experiments in Laboratories
PO Paleocceanography
POF-A Physics of Fluids-A
POREC Polar Record
POST The Washington Post Newspaper
PP III Protostars and Planets, III, eds. Levy, Lunine, Matthews
PPC Plenum Publishing Corporation
PR Physical Review
PR-A Physical Review A
PREPRN Preprint
PRL Physical Review Letters
PSU Penn State University
PU Princeton University
PURDUE Purdue University
PVS Pioneer Voyager Symposium
PWRI Public Works Research Institute, Tsukuba, Japan

Q

QJRAS Quarterly Journal of Royal Astronomical Society
QJRMS Quarterly Journal of Royal Meteorological Society

SPONSER ABBREVIATION LIST

R

R&M	5th International Symposium on Robotics and Manufacturing
R-GEO	Reviews of Geophysic
RADGEN	International Workshop on Accelerated Radiation Generation in Space
RADIO	National Radio Science Meeting
RAL	Rutherford Appleton Laboratory
RAS	Monthly Notices of the Royal Astronomical Society
RAS-C	Royal Astronomical Society of Canada
RFC	Rochester FORTH Conference
RGO	Royal Greenwich Observatory Conference
RO&P	DOD Fiber Optics and Photonics Conference
ROE	Royal Observatory-Edinburg
ROYALSOC	Royal Society
RSE	Remote Sensing of Environment
RSR	Remote Sensing Reviews
RUTGERS	Rutgers University, New Brunswick, NJ

S

S&ECS	Space and Environmental Control System
S&T	Sky and Telescope
SA-O	Satellite Altimeter and the Oceans
SAAB	SAAB/PSSA Congress Symposium, Johannesburg, South Africa
SAAI	Goddard Conference on Space Applications of Artificial Intelligence
SAEASD	Society of Automotive Engineers, Avionics Systems Division
SANS	System Administration Networking and Security Conference
SCS	Society for Computer Simulation
SD	International Symposium on Space Dynamics
SDSMT	South Dakota School of Mines and Technology
SEDI	4th SEDI Symposium
SEES	Single Event Effects Symposium
SESAPS	SESAPS Meeting
SFDYN	International Symposium on Space Flight Dynamics
SIGCHI	SIGCHI Workshop
SIGF	SIGForth, Kansas City, MO
SMC	Software Maintenance Conference
SMW	Stratospheric Modelling Workshop
SNOVA	Workshop on Supernova Remnants and the Physics of Strong Shock Waves
SOHe	IAGG Solar-Heliospheric Workshop
SOHO	SOHO Workshop
SOLAR	Solar Physics
SP-OPS	Space Ops
SPACE	Symposium of Space
SPE	Society of Plastics Engineer
SPIE	Society of Professional Engineers
SPOIEC	Society of Photo-Optical Instrumentation Engineers Conference
SPRICE	Space Physics Seminar, Rice University
SPROME	International School of Space Physics, L'Aquila, Rome
SPRT	Space Photovoltaic Research and Technology Conference
SPS	Space Physics Seminar
SRB	GEWEX Surface Radiations Budget Workshop
SSC	Space Simulation Conference
SSDM	Structures, Structural Dynamics & Materials Conference
SSMT	Spacecraft Structures and Mechanical Testing
SSNPP	Symposium on Space Nuclear Power and Propulsion
SSPS	Shuttle Small Payloads Symposium

SPONSER ABBREVIATION LIST

SSR Space Science Reviews
SSTP Symposium on Solar Terrestrial Physics
STAR-C Int'l. Software Testing Analysis and Review Conference
STHOLM University of Stockholm
STP-W Solar-Terrestrial Predictions Workshop
STSI Space Telescope Science Institute
SUNSYM Symposium on "A New Look at the Sun"
SUNY SUNY, Stony Brook, New York
SUPER93 Supercomputing '93 and HPCC/ESS Science Team Meeting

T

T&I Telematics and Informatics
TECH2003 Technology 2003 Workshop
TECO World Meteorological Organization Technical Conference
THEMCON ERIM 10th Thematic Conference for Geological Remote Sensing
TITAN Symposium on Titan, European Space Agency
TMU Tokyo Metropolitan University
TOP/POS TOPEX/POSEIDON Research News
TRiest University of Trieste, Italy
TRMM Tropical Rain Measuring Mission
TROPMET National Symposium on Climate Variability at Institute of Tropical Meteorology
TU Toronto University, Department of Physics
TU-J Tohoku University, Japan

U

U CHI University of Chicago
U KAN University of Kansas
U MON University of Montana
U MUN University of Munich, Germany
UAM University Autonoma de Madrid, Spain
UC Union College, Schenectady, NY
UCAR UNCAR Conference
UC-B University of California-Berkeley
UC-R University of California-Riverside
UCLA University of California-Los Angeles
UCO University of Colorado
UCSD UCSD Seminar
UL University of Louisville
UM University of Maryland
UMBC University of Maryland-Baltimore County
UMEX University of Mexico Lecture Series: CINVESTAV del IPN; Department of Physics
UMINN University of Minnesota
UNC University of North Carolina
UNESCO United Nations Educational, Scientific, and Cultural Organization
UOC University of Chicago
UOFI University of Iowa
UOS University of Singapore
UOT University of Tokyo
URSI URSI National Radio Science Meeting
USINDIA Workshop on "Geomagnetism in the Study of the Earth's Interior"
USJOOFS JOOFS Steering Committee
UTN University of Tennessee
UTORON University of Toronto
UV/X UV/X-Ray Spectroscopy of Astrophysical/Laboratory Plasmas International Colloquium

SPONSER ABBREVIATION LIST

V

VGMM	Venus Geologic Mappers Meeting
VLBI	VLBI Workshop
VNREPS	Van Nostrand Reinhold Encyclopedia of Planetary Sciences
VRS93	Virtual Reality Systems, Fall 1993

W

WEATHER	Weather
WEGENER	WEGENER Conference, St. Petersburg, Russia
WLU	Washington and Lee University
WMO	World Meteorological Organization
WPGM	Western Pacific Geophysics Meeting
WSC	World Space Congress

X

X/AST	New Horizon of X-ray Astronomy
X/BI	Evolution of X-Ray Binaries



REPORT DOCUMENTATION PAGE

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