

**Unrefereed Papers/Presentations by ACE Team Members at  
Conferences, Workshops and other Meetings  
(since January 2003)  
*Updated Feb 12, 2008***

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## 2007

### Shine 2007, July 30 – August 3, Whistler, BC, Canada

Cohen, C.M.S., R. A. Mewaldt, G. M. Mason, D. K. Haggerty, G. Li, “Proton and Heavy Ion Spectra in Large SEP Events”, invited

Mason, G. M., “Recent Progress in Understanding 3He-rich SEP Events”, invited

Mewaldt, R. A., C. M. S. Cohen, G. M. Mason, “Composition and Energy Spectra of Low-Energy Ions during Solar Quiet Times”, invited

Foullon, C., C.J. Owen, S. Dasso, L.M. Green, I. Dandouras, H.A. Elliott, A.N. Fazakerley, Y.V. Bogdanova, N.U. Crooker, “Multi-spacecraft study of the 21 January 2005 ICME”, invited

Rakowski, C.E., J.M. Laming and S.T. Lepri, “Ion Charge States in Halo CMEs: 2003/10/29 and 2005/01/2005”, invited

Smith, C.W., “Observation of Enhanced Wave Spectra (or its Absence) in Large SEP Events”, invited

Gloeckler, G. and L. A. Fisk, “Ubiquitous Suprathermal Power Law Tails: Observations and Theory”.

Cohen, C.M.S. and R.A. Mewaldt, G.M. Mason and G.C. Ho, J.C. Kasper and J.D. Richardson, “The Evolution of Heavy Ion Spectra at Interplanetary Shock Passages”.

Kucharek, H., E. Moebius, F. Allegrini, M. I. Desai, B. Klecker, M.A. Popecki, A. B. Galvin, and P. Bochsler, ”Acceleration of Helium at Interplanetary Shocks”.

Lario, D. and R.B. Decker, “Influence of large-scale interplanetary structures on energetic particle propagation: The September 2004 event at Ulysses and ACE”.

Lepri, S.T., T. H. Zurbuchen, and L. A. Fisk, “Non-thermal behavior of solar wind heavy ions: Reconnection effects?”

Broiles, T., M. I. Desai, D. J. McComas, H.A. Elliott, G.M. Mason, “Corotating Interaction Regions near Earth orbit”.

Jian, L., C. T. Russell, J. G. Luhmann, R. M. Skoug, J. T. Steinberg, “Radial evolution of stream interactions from 0.72 to 5.3 AU”.

Cane, H.V., I. G. Richardson and T. T. von Rosenvinge, “The solar energetic particle event zoo”.

Haggerty, Dennis K., and Edmond C. Roelof, “New Results for Interplanetary Type III Solar Radio Bursts Associated with Near-Relativistic Beam-Like Solar Electron Events”.

Chollet, E., J. Giacalone, J. Mazur, M. Al Dayeh, “A New Phenomenon in Impulsive-Flare Associated Energetic Particles”.

Wang, Linghua, Robert P. Lin, Sam Krucker, Gang Li, and Glenn M. Mason, “The timing between impulsive electrons and type III radio bursts and  $^3\text{He}$ -rich ions”.

Mulligan, T., J. B. Blake, R. Mewaldt, “Unusual Solar Energetic Proton Fluxes at 1 AU within an Interplanetary CME”.

Leske, R.A., R.A. Mewaldt, G.M. Mason, C.M.S. Cohen, A.C. Cummings, A.J. Davis, A.W. Labrador, H. Miyasaka, E.C. Stone, M.E. Wiedenbeck, T.T. von Rosenvinge, “STEREO and ACE Observations of Corotating Interaction Regions”.

R. A. Mewaldt, C. M. S. Cohen, A. W. Labrador and R. A. Leske (Caltech); G. M. Mason and D. K. Haggerty (JHU/APL); M. L. Looper, and R. S. Selesnick (Aerospace Corporation), “Composition and Energy Spectra of the Large SEP event of January 20, 2005”

## **30th International Cosmic Ray Conference, July 2007, Merida Mexico**

**Binns, W.R., et al., CAN  $^{59}\text{Ni}$  SYNTHESIZED IN OB ASSOCIATIONS DECAY TO  $^{59}\text{Co}$  BEFORE BEING ACCELERATED TO COSMIC-RAY ENERGIES?**

**Cane, H., et al., Comparing small and large SEP events and the role of flares and shocks**

**COHEN, Christina, MEWALDT, R. A., CUMMINGS, A. C., LESKE, R. A., STONE, E. C., WIEDENBECK, M. E., VON ROSENVINGE, T. T., MASON, G. M., Comparing Observations and Expectations of SEP Composition in the Two December 2006 Events.**

**Dasso, S., W.H. Matthaeus, J.M. Weygand, P. Chuychai, L.J. Milano, C.W. Smith, M.G. Kivelson, ACE/Wind Multispacecraft Analysis of Magnetic Correlation in the Solar Wind.**

**De Nolfo, G. et al., Cosmic Ray Helium Intensities over the Solar Cycle from ACE**

**Heber, B., et al., Gradients of Galactic Cosmic Rays: Ulysses KET Results**

**Kartavykh, J., et al., Acceleration and transport modeling in the solar energetic particle event of 2000 May 1**

**Klecker, B., et al., Ionic Charge States of Heavy Ions Associated with Interplanetary Shocks at 1AU**

**Leske, R.A. et al., Changing Anomalous Cosmic Ray Radial Intensity Gradients Between 1 AU and Voyager with the Return to Solar Minimum**

**Leske, R.A. et al., Observations of Corotating Interaction Regions from STEREO and ACE**

**Mewaldt, R.A. et al., Solar Energetic Particle Observations from the Low Energy Telescopes on STEREO**

**Mewaldt, R.A. et al., The Charge-to-Mass Dependence of Solar Energetic Particle Spectral Breaks**

**Ogliore, R.C., et al., The Sulfur, Argon, and Calcium Isotopic Composition of the Galactic Cosmic Ray Source**

**Wiedenbeck, M. E. et al., Persistent Energetic  $^3\text{He}$  in the Inner Heliosphere**

**Wiedenbeck, M. E. et al., Primary and Secondary Contributions to Arriving Abundances of Cosmic Ray Nuclides**

## **SOHO 20, Ghent, Belgium, August 2007**

**Leske, R.A., et al., CMEs and Their Role in SEP Acceleration and Transport**

**Zurbuchen, T., et al., Measuring the temperature of CME plasma near the Sun: Flare heating?**

**Malendraki, O., et al., Energetic particle observations in the three-dimensional heliosphere**

## **AGU Meetings 2007**

**AGU Joint Assembly 2007, Acapulco (for some reason, these are not in NASA ADS...)**

**Ongoing Recovery of Anomalous Cosmic Rays at 1 AU and Decreasing Radial Intensity Gradients**

Leske, R A et al.

**Solar Energetic Particle Observations From the STEREO Low Energy Telescope (LET)**

Mewaldt, R A et al.

**STEREO and ACE Observations of Energetic Particles from Corotating Interaction Regions**

Leske, R A et al.

**Bulk Properties of Solar Wind Protons: Inter-comparison of Observations From STEREO, SOHO, ACE, and WIND**

Simunac, K D et al.

**Direct Evidence for Prolonged Magnetic Reconnection at a Continuous X-Line Within the Heliospheric Current Sheet**

Gosling, J T et al.

**Gradients of Galactic Cosmic Rays: Ulysses KET Results**

Heber, B et al.

**STEREO, ACE and Wind Observations of Reconnection X-line Extents and Durations in the Solar Wind**

Gosling, J T et al.

**Stream Interaction Regions and Interplanetary Coronal Mass Ejections at 5 AU**

Jian, L et al.

**Stochastic Charged Particle Acceleration in the Heliosphere**

Gloeckler, G., and L.A. Fisk et al.

**AGU Fall Meeting 2007 San Francisco**

**[The Trapping of Low-Energy Particles by Interplanetary Shocks](#)**

Al Dayeh, M., Dwyer, J., Rassoul, H., Mason, G., Mazur, J., and Desai, M.

**[Evidence for Mass-per-charge dependent acceleration of a multiple-component seed population by CME-driven interplanetary shocks near 1 AU](#)**

Allegrini, F., Desai, M. I., Mason, G. M., Kucharek, H., and Moebius, E.

**[Multispacecraft Observations of "Dropouts" in Impulsive Events](#)**

Chollet, E., Giacalone, J., and Mason, G.

### **Technique of Measuring Taylor Microscale**

Chuychai, P., Weygand, J. M., Matthaeus, W. H., Dasso, S., Smith, C. W., and Kivelson, M.

### **The Origin of Low Energy 3He**

de Nolfo, G. A., Wiedenbeck, M. E., Binns, W. R., Cohen, C. M., Cummings, A. C., Israel, M. H., Leske, R. A., Mewaldt, R. A., Stone, E. C., and von Rosenvinge, T. T.

### **The Spatial Distribution of Upstream Ion Events Measured by ACE, Wind, and STEREO Near the Earth's Bow Shock**

Desai, M. I., Mason, G. M., Muller-Mellin, R., and Smith, C. W.

### **Measurement of Energy Cascade Rate and Dissipation Rate in the Solar Wind: Theoretical Approach Based on Third Order Moments in Axisymmetric MHD Turbulence**

Forman, M. A., Podesta, J. J., and Smith, C. W.

### **Solar Wind and Suprathermal Ion Populations at the STEREO Spacecraft Approaching Solar Minimum**

Galvin, A. B., Popecki, M., Kistler, L., Simunac, K., Farrugia, C., Gustafson, A., Barry, J., Ellis, L., Moebius, E., Blush, L., Klecker, B., Bochsler, P., Wurz, P., Wimmer-Schweingruber, R., Thompson, B., Luhmann, J., and Russell, C.

### **Observations of Suprathermal Power Law Tails with ACE, Ulysses, MESSENGER, and Voyager**

Gloeckler, G. and Fisk, L. A.

### **STEREO observations of CIR-accelerated particle events during 2007**

Gomez-Herrero, R., Klassen, A., Muller-Mellin, R., Boettcher, S., Heber, B., and Wimmer-Schweingruber, R.

### **Upper Limit on 3He Fluence in Solar Energetic Particle Events**

Ho, G. C., Mason, G. M., and Roelof, E. C.

### **Multipoint Observations of Stream Interaction Regions**

Jian, L. K., Russell, C. T., Luhmann, J. G., Skoug, R. M., Steinberg, J. T., and Galvin, A. B.

### **STEREO/SEPT Observations of Upstream Particle Events: Almost Monoenergetic Ion Beams**

Klassen, A., Gomez-Herrero, R., Mueller-Mellin, R., Boettcher, S., Heber, B., and Wimmer-Schweingruber, R.

### **Pickup Helium in the Inner Heliosphere: an Overview**

Klecker, B., Galvin, A. B., Kucharek, H., Kistler, L. M., Popecki, M. A., Mouikis, C., Farrugia, C., Mölbius, E., Lee, M. A., Ellis, L., Simunac, K., Singer, K., Blush, L. M., Bochslter, P., Wurz, P., Daoudi, H., Giammanco, C., Karrer, R., Opitz, A., Wimmer-Schweingruber, R. F., Koeten, M., Hilchenbach, M., Thompson, B., Acuna, M., and Luhman, J.

**[Ionic Charge States of Low Energy Ions in Solar Energetic Particle Events: an Overview](#)**

Klecker, B., Mölbius, E., Popecki, M. A., Kistler, L. M., and Hilchenbach, M.

**[Solar wind structures associated with multiday Helium-3 rich periods of solar energetic particles](#)**

Kocharov, L., Laivola, J., Mason, G. M., Didkovsky, L., and Judge, D. L.

**[An improved ACE/SWICS efficiency model including uncertainty estimates](#)**

Koeten, M., Berger, L., Rodde, R., Raines, J., and Wimmer-Schweingruber, R. F.

**[An Overview of SAMPEX/MAST Measurements of High Energy Ionic Charge States in Gradual Solar Energetic Particle Events](#)**

Labrador, A. W., Leske, R. A., Cohen, C. M., Mewaldt, R. A., Stone, E. C., and von Roseninge, T. T.

**[The September 2004 Event at Ulysses and ACE: Influence of Large-Scale Interplanetary Structures on Energetic Particle Propagation](#)**

Lario, D., Decker, R. B., Malandraki, O. E., and Lanzerotti, L. J.

**[Correlation of Solar Wind Features from Well-Separated Spacecraft](#)**

Lazarus, A. J., Kasper, J. C., Ashmall, J., Skoug, R. M., Steinberg, J. T., Ogilvie, K. W., Szabo, A., Smith, C., and Hu, Q.

**[Solar Wind Structure at Solar Minimum: 3D MHD Solar Wind Model Results Compared with STEREO and ACE Observations](#)**

Lee, C. O., Luhmann, J. G., de Pater, I., Odstreil, D., MacNeice, P., Arge, C. N., Riley, P., Schroeder, P., Leske, R. A., Jian, L. K., Russell, C. T., Mason, G. M., Galvin, A. B., Simunac, K. D., and McGregor, S.

**[Comparison of Heliospheric In-Situ Data with the Quasi-Steady Solar Wind Models](#)**

Lepri, S. T., Antiochos, S. K., Riley, P., Zhao, L., and Zurbuchen, T. H.

**[Energetic Particles from Corotating Interaction Regions as Observed by STEREO and ACE](#)**

Leske, R. A., Mewaldt, R. A., Mason, G. M., Cohen, C. M., Cummings, A. C., Davis, A. J., Labrador, A. W., Miyasaka, H., Stone, E. C., Wiedenbeck, M.



E., and von Rosenvinge, T. T.

**Sources of fast solar wind streams observed on STEREO and at L1**

Luhmann, J. G., Schroeder, P., Larson, D., Lee, C. O., Li, Y., Lin, R. P., Russell, C. T., Jian, L. K., Acuna, M. H., Sauvaud, J., Galvin, A. B., Howard, R. A., McComas, D. J., Skoug, R., Petrie, G., Arge, C. N., Odstrcil, D., Riley, P., and MacNeice, P.

**The Turbulent Cascade at 1 AU: Energy Transfer and the Third-Order Scaling for MHD**

MacBride, B. T., Smith, C. W., and Forman, M. A.

**Statistical Analysis of the High-Frequency Spectral Break of the Solar Wind Turbulence at 1 AU**

Markovskii, S., Vasquez, B., and Smith, C.

**Ionic Charge States of Energetic Nuclei In Large Solar Particle Events**

Mewaldt, R. A. and Labrador, A. W.

**Energy Spectra and Composition of Low-Energy Ions during Solar Quiet Times**

Mewaldt, R. A., Mason, G. M., Cohen, C. M., Leske, R. A., Stone, E. C., von Rosenvinge, T. T., Wiedenbeck, M. E., Dwyer, J. R., and Mazur, J. E.

**Helium at Interplanetary Discontinuities: ACE STEREO Observations and Simulations**

Moebius, E., Kucharek, H., Allegrini, F., Desai, M., Klecker, B., Popecki, M., Farrugia, C., Galvin, A., Bochsler, P., Karrer, R., Opitz, A., and Simunac, K.

**Solar Origin of  $^3\text{He}$ -rich Solar Energetic Particle Events**

Nitta, N. V., Mason, G. M., Wiedenbeck, M. E., and Cohen, C. M.

**The Orientation of the Local Interstellar Magnetic Field and Induced Asymmetries of the Heliosphere: Neutrals-MHD model**

Opher, M., Stone, E. C., Izmodenov, V., Malama, Y., Alexashov, D., Toth, G., and Gombosi, T.

**An Overview of Solar Energetic Particle Ionic Charge States in Flare-Related Events**

Popecki, M., Moebius, E., Klecker, B., Guo, Z., and Kistler, L.

**Compositional variations in magnetic clouds with ACE/SWICS**

Rodde, R., Berger, L., Koeten, M., Zurbuchen, T. H., and Wimmer-Schweingruber, R. F.

**Probing the 2-D Geometry of CIRs at Solar Minimum: Observations From STEREO**

Simunac, K. D., Galvin, A. B., Kistler, L. M., Popecki, M. A., Farrugia, C., Moebius, E., Ellis, L., Blush, L. M., Bochsler, P., Wurz, P., Klecker, B., Wimmer-Schweingruber, R. F., Thompson, B. J., Luhmann, J. G., Russell, C. T., and Jian, L. K.

**Backstreaming Electrons Associated With Solar Electron Bursts**

Skoug, R. M., Steinberg, J. T., de Koning, C. A., Gosling, J. T., and McComas, D. J.

**Anisotropies and Helicities in the Solar Wind Inertial and Dissipation Ranges at 1 AU**

Smith, C. W., Vasquez, B. J., Leamon, R. J., and Hamilton, K.

**Interplanetary Magnetic Field Folds in High Speed Streams Observed with Ulysses and ACE**

Steinberg, J. T. and Skoug, R. M.

**Assessment and Validation of MHD Models for the Solar Corona and Inner Heliosphere**

Strachan, L., Zurbuchen, T. H., Kohl, J. L., Panasyuk, A. V., Raymond, J. R., and van Ballegoijen, A.

**Asymmetry of Power Spectra for Interplanetary Fluctuations at 1 AU**

Tessein, J. A., Smith, C. W., and Borovsky, J. E.

**Solar-Wind Discontinuities and the Potential Role of Alfvénic Turbulence**

Vasquez, B. J., Abramenko, V. I., Haggerty, D. K., and Smith, C. W.

**Do Large Solar Energetic Particle Events Observed at 1 AU Include Particles Accelerated by the Associated Solar Flare?**

von Roseninge, T. T., Cane, H. V., Richardson, I. G., Cohen, C. M., and Mewaldt, R. A.

**Characteristics of 3He-rich Solar Energetic Particle Events Derived from in situ Observations**

Wiedenbeck, M. E.

**Multi-spacecraft Observations of 3He-rich Solar Energetic Particle Events**

Wiedenbeck, M. E., Cohen, C. M., Cummings, A. C., Labrador, A. W., Leske, R. A., Mewaldt, R. A., Stone, E. C., and von Roseninge, T. T.

**ON THE GLOBAL DISTRIBUTION OF SLOW SOLAR WIND**

Zhao, L., Zurbuchen, T., and Fisk, L.

## On the puzzle of heavy ion properties near the Sun

Zurbuchen, T. H.

## **Other 2007 Meetings/Conferences**

Binns, W.R. et al., **Can  $^{59}\text{Ni}$  Synthesized in OB Associations Decay to  $^{59}\text{Co}$  Before Being Accelerated to Cosmic-Ray Energies?**, American Physical Society, APS April Meeting, April 14-17, 2007, abstract #B11.003

Zurbuchen, T. et al., **Connecting the Sun to the Heliosphere**, Eos, Transactions American Geophysical Union, Volume 88, Issue 4, p. 37-42 (**Refereed? Check...**)

## **2006**

### **ACE-ISSI Symposium on the Composition of Matter, September 2006, Grindelwald**

#### **Elemental Abundances of the Bulk Solar Wind: Analyses from Genesis and ACE**

Daniel B. Reisenfeld, Roger C. Wiens, Donald S. Burnett, Charles M. Hohenberg, Alexander Meshik, Robert O. Pepin, Richard H. Becker, Amy Jurewicz, James M. Raines<sup>4</sup>, Thomas H. Zurbuchen

#### **Pickup Ions from Solar Wind - Dust Interactions in the Heliosphere: The Inner and Outer Sources**

Nathan Schwadron, George Gloeckler,

#### **Solar Composition and Fractionation: the Solar Wind and Solar Energetic Particles**

Edward Stone

#### **The Composition of the Solar Wind**

George Gloeckler, Johannes Geiss

#### **Acceleration and Composition of Solar Wind Suprathermal Tails**

Len Fisk

#### **Coronal Effects on FIP Fractionation of the Solar Wind?**

Thomas Zurbuchen

#### **Solar Elemental Composition based on Studies of Solar Energetic Particles**

C.M.S. Cohen, R.A. Mewaldt, R.A. Leske, A.C. Cummings, E.C. Stone, M.E. Wiedenbeck, T.T. von Rosenvinge

**The Solar Isotopic Composition as Determined Using Solar Energetic Particles**

R. A. Leske, R. A. Mewaldt, C. M. S. Cohen, A. C. Cummings, E. C. Stone, M. E. Wiedenbeck, T. T. von Rosenvinge

**Interpreting the Composition Large Solar Energetic Particle Events**

R. A. Mewaldt, C. M. S. Cohen, G. M. Mason, A. C. Cummings, M. I. Desai, R. A. Leske, E. C. Stone, T. T. von Rosenvinge, M. E. Wiedenbeck

**<sup>3</sup>He-rich Solar Energetic Particle Events**

Glenn Mason

**The Seed Population for Heavy Ions in Large Solar Energetic Particle Events**

Mihir I. Desai, G. M. Mason, C. M. S. Cohen, R. A. Mewaldt, S. M. Krimigis, R. E. Gold, J. E. Mazur, J. R. Dwyer

**Ionic Charge States of Solar Energetic Particles: a Clue to the Source**

Berndt Klecker

**The Composition of Primary Galactic Cosmic Rays--An Overview**

M. E. Wiedenbeck, W.R. Binns, A.C. Cummings, G. de Nolfo<sup>4</sup>, M.H. Israel, R.A. Leske, R.A. Mewaldt, E.C. Stone, T.T. von Rosenvinge

**Wolf-Rayet Stars, OB Associations, and the Origin of Galactic Cosmic Rays**

W.R. Binns, M.H. Israel, L.M. Scott, M.E. Wiedenbeck<sup>4</sup>, M. Arnould, A.C. Cummings, J.S. George, S. Goriely, R.A. Leske, R.A. Mewaldt, E.C. Stone, T.T. von Rosenvinge, G. Meynet

**Interplanetary Shocks and “Suprathermal” Flare Particles**

Tycho von Rosenvinge, Hilary Cane, Ian Richardson,

**Long-Term Fluences of Solar Energetic Particles from H to Fe**

R. A. Mewaldt, G. M. Mason, C. M. S. Cohen, D. K. Haggerty, A. J. Davis, M. I. Desai

**Elemental Composition and Energy Spectra of Galactic Cosmic Rays during Solar Cycle 23**

M.H. Israel, J.S. George, W.R. Binns, A.C. Cummings, A.J. Davis, G.A. de Nolfo, K.A. Lave, R.A. Leske, R.A. Mewaldt, L.M. Scott, E.C. Stone, T.T. von Rosenvinge, M.E. Wiedenbeck

**An Update on Studies of Ultra-Heavy Elements in Solar Energetic Particles Above 10 MeV/nucleon**

R. A. Leske, R. A. Mewaldt, C. M. S. Cohen, A. C. Cummings, E. C. Stone, M. E. Wiedenbeck, T. T. von Rosenvinge

## **Shine 2006, Midway, Utah**

### **Interpreting Spectral Forms Observed in Large Solar Energetic Particle Events**

C.M.S. Cohen, R.A. Mewaldt, G.M. Mason

### **Multiple Solar Electron Bursts Coincident with an Extended Interval of Broad Suprathermal Electron Strahl**

Curt A. de Koning, J.T. Gosling, R.M. Skoug, J.T. Steinberg, M.L. Kaiser, R. MacDowall, D. Haggerty

### **Solar Cycle Variations in the Composition of Suprathermal Heavy Ion Population Near 1 AU**

M. I. Desai, Southwest Research Institute, G. M. Mason, The Johns Hopkins University, Applied Physics Laboratory, J. E. Mazur, The Aerospace Corporation, & J. R. Dwyer, Florida Institute of Technology.

### **Stochastic acceleration in turbulence: Lessons from heliospheric observations**

L.A. Fisk, University of Michigan

### **Sudden Changes in Flow Speed as a Source of Nearly Radial Solar Wind Magnetic Fields**

J. T. Gosling, LASP, University of Colorado

### **Sequences of near-relativistic electron events: A different class of electron events**

Dennis K. Haggerty and Edmond C. Roelof

### **The role of ICMEs in the variability of the heliospheric magnetic flux**

S. T. Lepri, The University of Michigan

### **An Update on Studies of Ultra-Heavy Elements in Solar Energetic Particles Above 10 MeV/nucleon**

R.A. Leske, C.M.S. Cohen, A.C. Cummings, R.A. Mewaldt, E.C. Stone, M.E. Wiedenbeck, and T.T. von Rosenvinge

### **Review of CIR-related particle composition, charge states, and energy spectra**

J. E. Mazur, G. M. Mason, J. R. Dwyer, & M. Desai

### **Review of observations of particles from solar flares and their clues to the structure of the IMF**

Mazur, J. E., G. M. Mason, J. R. Dwyer, J. Giacalone, J. R. Jokipii, and E. C. Stone

### **Solar Particle Spectra and Composition**

R. A. Mewaldt, C. M. S. Cohen, A. W. Labrador, and R. A. Leske

## **36<sup>th</sup> COSPAR Assembly, Beijing, 2006**

Mewaldt, R. A., Mason, G. M., Cohen, C. S., Cummings, A. C., Desai, M. I., Leske, R. A., Stone, E. C., von Roseninge, T. T., & Wiedenbeck, M. E. 2006, 36th COSPAR Scientific Assembly [Dependence of solar energetic particle intensities on the density of suprathermal seed particles](#)

Mewaldt, R. A., Cohen, C. S., Cummings, A. C., Leske, R. A., Stone, E. C., von Roseninge, T. T., & Wiedenbeck, M. E. 2006, 36th COSPAR Scientific Assembly [Long and short-term fluences of solar energetic particles from H to Fe](#)

Leske, R. A., Cohen, C. M. S., Mewaldt, R. A., Cummings, A. C., Stone, E. C., Wiedenbeck, M. E., & von Roseninge, T. T. 2006, 36th COSPAR Scientific Assembly [Ultra-heavy elements in solar energetic particles above 10 MeV/nucleon](#)

Ho, G. C., Lario, D., Decker, R. B., Desai, M. I., Hu, Q., & Kasper, J. 2006, 36th COSPAR Scientific Assembly [Multi-spacecraft Observations of Interplanetary Shock Accelerated Particle Events](#)

Plasma depletion and mirror waves ahead of ICMEs Liu, Y., Richardson, J. D., Belcher, J. W., Kasper, J. C., and Skoug, R. M. [Plasma depletion and mirror waves ahead of ICMEs](#)

Kartavykh, Y., Dröge, W., Klecker, B., Möbius, E., Popecki, M., Mason, G., & Krucker, S. 2006, 36th COSPAR Scientific Assembly [Properties of acceleration sites in active regions as derived from heavy ion charge states](#)

## **AAS Solar Physics Division Meeting, Durham, NH, 2006**

[Interplanetary Anisotropic Fluctuation Spectra: Testing Weakly Compressible Mhd Theory With Ace Data](#)

Bhattacharjee, Amitava, Smith, C., and Vasquez, B.

[Probing Solar Open Magnetic Fields With Near-relativistic Electron Beams.](#)

Haggerty, Dennis K., Rust, D., Sheeley, N. R., and Wang, Y.

[Two New Results in Solar Wind Turbulence](#)

Smith, Charles W., Hamilton, K., Vasquez, B. J., and Leamon, R. J.

[Identifying Directional Discontinuities in the Solar Wind](#)

Vasquez, Bernard J., Haggerty, D. K., and Smith, C. W.

[\*\*A Statistical Study of Solar Energetic Electron Events over one Solar Cycle\*\*](#)

Wang, Linghua, Lin, R. P., Krucker, S., and Mason, G. M.

## **AGU Meetings 2006**

**AGU Spring 2006 (for some reason, these are not entered in NASA ADS...)**

**An Extended Interval of Broad Suprathermal Electron Strahl Coincident with Multiple Solar Electron Bursts**

C A de Koning, R M Skoug, J T Steinberg, J T Gosling

**Directional Discontinuities in the Solar Wind**

B J Vasquez, D K Haggerty, T H Zurbuchen, C W Smith

**On the Acceleration of Helium in the Heliosphere**

H Kucharek, E Moebius, F Allegrini, M Desai, C Smith, B Klecker, C Farrugia, M Popecki, A Galvin, P Bochsler

**Spatial/Temporal Variations of SEP Ion Onsets From L1 To Near Earth's Magnetosphere**

S P Christon, T E Eastman, R B Decker, E C Roelof

**Injection times of near-relativistic solar protons and electrons**

D K Haggerty, E C Roelof

**Energy Dependence of Electron Pitch-Angle Distribution Broadening in Solar Bursts**

C A de Koning, R M Skoug, J T Steinberg, J T Gosling

**Leading edge and peak flux density exciter speeds associated with solar type-III bursts along interplanetary field lines well-connected to Earth**

D K Haggerty, E C Roelof

**Injection and interplanetary propagation of solar energetic particles observed on ACE**

G M Mason, D K Haggerty, E C Roelof, M I Desai, C M Cohen, R A Mewaldt, J R Dwyer  
INVITED

**Solar Energetic Particle Intensities: Dependence on the Density of Suprathermal Seed Particles**

R A Mewaldt, C S Cohen, G M Mason, A C Cummings, M I Desai, R A Leske, E C Stone, T T von Rosenvinge, M E Wiedenbeck

### **Elemental Abundances Observed by ACE During Ground Level Events**

T T von Rosenvinge, C M Cohen, A C Cummings, R A Leske, R A Mewaldt, E C Stone, M E Wiedenbeck

### **Heavy Ion Abundances in Large Solar Energetic Particle Events**

M I Desai, G M Mason, S M Krimigis, R E Gold, C Cohen, R A Mewaldt, J E Mazur, J R Dwyer

### **Studies of Ultra-Heavy Elements in Solar Energetic Particles Above 10 MeV/nucleon**

R A Leske, C M Cohen, A C Cummings, R A Mewaldt, E C Stone, M E Wiedenbeck, T T von Rosenvinge

### **Observations of Heavy Element Abundances over a Broad Energy Range in 3He-rich Solar Energetic Particle Events**

M E Wiedenbeck, G M Mason, C M Cohen, R A Leske, A C Cummings, J R Dwyer, J E Mazur, R A Mewaldt, E C Stone, T T von Rosenvinge

### **AGU Fall 2006**

Agueda, N., Vanio, R., Sanahuja, B., & Lario, D. 2006, AGU Fall Meeting Abstracts [Solar near-relativistic electrons on 2000 May 1: insights into injection and transport along the interplanetary magnetic field.](#)

Allegrini, F., Desai, M. I., Kucharek, H., Mason, G. M., & Moebius, E. 2006, AGU Fall Meeting Abstracts [Acceleration of heavy ions at CME-driven Interplanetary Shocks Near Earth](#)

Berger, L., Wimmer-Schweingruber, R. F., Köten, M., Rodde, R., Zurbuchen, T. H., Raines, J., & Gloeckler, G. 2006, AGU Fall Meeting Abstracts [New, improved analysis of ACE/SWICS data for low-flux situations](#)

Bhattacharjee, A., Smith, C. W., & Vasquez, B. 2006, AGU Fall Meeting Abstracts [Weakly Compressible MHD Turbulence in the Solar Wind: Scaling of Anisotropic Magnetic Fluctuation Spectra](#)

Blush, L. M., Gosling, J. T., Haaland, S., Klecker, B., Paschmann, G., & Phan, T. D. 2006, AGU Fall Meeting Abstracts [Multi-spacecraft Observations of a Solar Wind Reconnection Exhaust Propagating into the Earth's Magnetosheath](#)

Bochsler, P., Moebius, E., & Wimmer-Schweingruber, R. F. 2006, AGU Fall Meeting Abstracts [Velocity Distributions, Charge States and Abundances of Inner Source Pickup Ions as Obtained from the Solar Wind Charge Exchange Model](#)



Chollet, E., Giacalone, J., Mazur, J., & Al-Dayeh, M. 2006, AGU Fall Meeting Abstracts [Multi-Spacecraft Observations of "Tassels" and "Dropouts": Features Associated With the Magnetic Flux Tube Structure of the Solar Wind](#)

Cohen, C., Mewaldt, R., Leske, R., Cummings, A., Stone, E., Wiedenbeck, M., von Rosenvinge, T., & Mason, G. 2006, AGU Fall Meeting Abstracts [Deriving Coronal Elemental Composition from Large SEP Event Composition](#)

Davis, A. J., Kanekal, S. G., Looper, M. D., Mason, G. M., & Mewaldt, R. A. 2006, AGU Fall Meeting Abstracts [Integrating a Data Center and Resident Archive into the Emerging Virtual Observatory System: Practical experience and perspectives](#)

Davis, M. S., Phan, T. D., Gosling, J. T., & Skoug, R. M. 2006, AGU Fall Meeting Abstracts [Detection of oppositely directed reconnection jets in a solar wind current sheet](#)

de Koning, C. A., Gosling, J. T., Skoug, R. M., Steinberg, J. T., Lin, R. P., & Wang, L. 2006, AGU Fall Meeting Abstracts [The Pitch-Angle Distribution Width Between 100 eV to 30 keV During Solar Electron Bursts](#)

Desai, M. I., Mason, G. M., Cohen, C., Mewaldt, R. A., Krimigis, S. M., Gold, R. E., Mazur, J. E., & Dwyer, J. R. 2006, AGU Fall Meeting Abstracts [The Seed Population for Heavy Ions in Large Solar Energetic Particle Events](#)

Dietrich, W. F., Tylka, A. J., Cliver, E. W., Cohen, C. M., Mewaldt, R. A., & Reames, D. V. 2006, AGU Fall Meeting Abstracts [The Disappearance of Large, Fe-Rich Solar Energetic Particle Events in the Declining Phase of Cycle 23: Implications for the Role of Flares](#)

Forman, M. A., MacBride, B. T., & Smith, C. W. 2006, AGU Fall Meeting Abstracts [Vector Third Moment of Turbulent MHD Fluctuations: Theory and Interpretation](#)

Gloeckler, G., Fisk, L., Zurbuchen, T. H., & Geiss, J. 2006, AGU Fall Meeting Abstracts [The Composition of the Solar Wind](#)

Gosling, J. T., McComas, D. J., Skoug, R. M., & Smith, C. W. 2006, AGU Fall Meeting Abstracts [Magnetic reconnection at the heliospheric current sheet and the formation of closed magnetic field lines in the solar wind](#)

Haggerty, D. K. & Roelof, E. C. 2006, AGU Fall Meeting Abstracts [Near-relativistic Electron Events and Their Solar Associations During Solar Cycle 23](#)

Hamilton, K., Vasquez, B. J., Smith, C. W., MacBride, B. T., & Leamon, R. J. 2006, AGU Fall Meeting Abstracts [Turbulent Cascade Rates in the Upper Inertial Range](#)

- Ho, G. C., Lario, D., Decker, R. B., Desai, M. I., Hu, Q., & Kasper, J. 2006, AGU Fall Meeting Abstracts [Multi-Spacecraft Observations of Interplanetary Shock Accelerated Particle Events](#)
- Hu, Q., Sonnerup, B. U., Smith, C. W., & Skoug, R. M. 2006, AGU Fall Meeting Abstracts [Reconstruction of Solar Wind Structures from Multi-spacecraft Data](#)
- Jian, L., Russell, C. T., Luhmann, J. G., Skoug, R. M., & Steinberg, J. T. 2006, AGU Fall Meeting Abstracts [Evolution of Solar Wind Structures in the Inner Solar System](#)
- Klecker, B., Möbius, E., Popecki, M. A., & Kistler, L. M. 2006, AGU Fall Meeting Abstracts [Ionic Charge States in Interplanetary Shock Related Solar Energetic Particle Events](#)
- Leske, R. A., Cohen, C. M., Mewaldt, R. A., Cummings, A. C., Stone, E. C., Wiedenbeck, M. E., & von Rosenvinge, T. T. 2006, AGU Fall Meeting Abstracts [Inferring Solar Isotopic Composition Using Solar Energetic Particles](#)
- MacBride, B. T., Forman, M. A., & Smith, C. W. 2006, AGU Fall Meeting Abstracts [Measuring the Turbulent Cascade in the Solar Wind](#)
- Mason, G. M., Desai, M. I., Cohen, C. M., Mewaldt, R. A., & Stone, E. C. 2006, AGU Fall Meeting Abstracts [New Insights on the Sources, Acceleration, and Transport of SEPs Obtained from Ion Composition Measurements](#)
- Matthaeus, W. H., Dasso, S., Weygand, J. M., Smith, C. W., & Kivelson, M. G. 2006, AGU Fall Meeting Abstracts [Two Point Measurements of statistical properties of solar wind turbulence](#)
- Mazur, J. E., Mason, G. M., Desai, M. I., Dwyer, J. R., Giacalone, J., Jokipii, J. R., & Stone, E. C. 2006, AGU Fall Meeting Abstracts [The structure of the interplanetary magnetic field as revealed by solar flare particles](#)
- Mewaldt, R. 2006, AGU Fall Meeting Abstracts [Solar Energetic Particle Events of Solar Cycle 23](#)
- Moestl, C., Leitner, M., Farrugia, C. J., Hu, Q., Biernat, H. K., & Smith, C. W. 2006, AGU Fall Meeting Abstracts [The November 20, 2003 magnetic cloud: Comparison of two models.](#)
- Palmroth, M., Partamies, N., Pulkkinen, T. I., Barnes, R., Stauning, P., Smith, C. W., McComas, D. J., & Weygand, J. M. 2006, AGU Fall Meeting Abstracts [Solar wind - magnetosphere coupling efficiency: Role of solar wind dynamic pressure](#)

Roelof, E. C., Lario, D., & Haggerty, D. K. 2006, AGU Fall Meeting Abstracts [Solar Energetic Particle Acceleration/Injection Time Profiles: Much Better Observed in the Inner Heliosphere](#)

Rust, D. M. & Haggerty, D. K. 2006, AGU Fall Meeting Abstracts [Mapping Solar Open Magnetic Fields With Near-Relativistic Electron Beams](#)

Smith, C. W., Vasquez, B. J., Hamilton, K., & Leamon, R. J. 2006, AGU Fall Meeting Abstracts [Two New Results in Solar Wind Turbulence](#)

Vasquez, B. J., Abramenko, V. I., Haggerty, D. K., & Smith, C. W. 2006, AGU Fall Meeting Abstracts [Directional Discontinuities Found During Bartels Rotation 2286](#)

Vorotnikov, V., Smith, C. W., Hu, Q., Szabo, A., Skoug, R. M., & Cohen, C. M. 2006, AGU Fall Meeting Abstracts [Automated Detection and Analysis of Interplanetary Shocks with Real-Time Application](#)

Walker, C., Popecki, M. A., Galvin, A. B., & Farrugia, C. 2006, AGU Fall Meeting Abstracts [Variations of Solar Wind Parameters Over a Solar Cycle: Implications for STEREO Observations](#)

Wiedenbeck, M. E., Cohen, C. M., Cummings, A. C., Leske, R. A., Mewaldt, R. A., Stone, E. C., & von Rosenvinge, T. T. 2006, AGU Fall Meeting Abstracts [Abundances of Helium Isotopes at MeV Energies in the SEP Events of Solar Cycle 23](#)

Zurbuchen, T. H. 2006, AGU Fall Meeting Abstracts [Connecting the Sun and the Heliosphere](#)

## **APS - 48th Annual Meeting of the Division of Plasma Physics, October 30-November 3, 2006**

### **[Ubiquitous Suprathermal Power Law Tails with Spectral Index -5](#)**

Gloeckler, George

### **[Solar Energetic Particles -- A Radiation Hazard to Humans and Hardware in Space](#)**

Mewaldt, R. A.

## **Heliospheric Network Workshop, Oxnard, CA, Nov 5-10 2006**

Allegrini et al., **Acceleration of Heavy Ions at CME-driven Interplanetary Shocks near Earth**

Desai, M. I. et al., **Solar energetic particle acceleration at CME-driven shocks -- results from solar cycle 23**

Elliott, H.A. et al., **Properties of ICMEs in the Declining Phase of Solar Cycle 23**

Gilbert, J.A., T.H. Zurbuchen, L.A. Fisk, **A New Technique for Mapping Open Magnetic Flux from the Solar Surface into the Heliosphere**

Gloeckler, G., and Geiss, J., **The Composition of the Solar Wind from Polar Coronal Holes at Solar Minimum**

Pick, M., et al., **Multispacecraft Study of the Halo CME Event on 24 September 2001 and of the Associated SEP Event: SOHO, WIND, ULYSSES, and ACE**

Mewaldt, R.A., et al., **How Efficient are CMEs at Accelerating Solar Energetic Particles?**

Cane, H.V., et al., **Interplanetary Shocks and "Suprathermal" Flare Particles**

Roelsof, E.C., and D.K. Haggerty, **Extracting Solar Energetic Particle Acceleration/Injection Time Profiles using the Heliospheric Network**

Gloeckler, G. and L.A. Fisk, **Observations and Theory of Suprathermal Power Law Tails with spectral Index -5 in the Solar Wind**

Leske, R.A. et al., **Anomalous Cosmic Ray Oxygen Intensity Gradients Between ACE and Voyager Throughout Solar Cycle 23**

Mewaldt, R.A., et al., **Long-Term Solar Energetic Particle Fluences from H to Fe**

Wiedenbeck, M.E., et al., **ACE Observations of Galactic Cosmic Ray Modulation from 1997 to 2006**

## **Other 2006 Meetings/Conferences**

### **Observations of solar wind fluctuations: Anisotropy properties**

Dasso, S., Matthaeus, W. H., Smith, C. W., and Milano, L. J.  
Cosmic Particle Acceleration, 26th meeting of the IAU, Joint Discussion 1,  
16-17 August, 2006, Prague, Czech Republic, JD01, #26

### **ACE/EPAM Energetic Particle Signatures during the October/November 2003 Interplanetary Coronal Mass Ejection Events**

Malandraki, O. E., Lario, D., Lanzerotti, L. J., Sarris, E. T., and Geranios, A.  
in Recent Advances in Astronomy and Astrophysics, 7th International Conference of the Hellenic Astronomical Society. AIP Conference Proceedings, Volume 848, pp. 176-183 (2006) **Refereed? – checking...**

**The Genesis Mission: The Effects of Solar Wind Conditions on the Deposition and Interpretation of the Genesis Samples**

Reisenfeld, D. B., Wiens, R. C., Barraclough, B. L., Steinberg, J. T., Dekoning, C., Raines, J., Zurbuchen, T. H., and Burnett, D. S.  
37th Annual Lunar and Planetary Science Conference, March 13-17, 2006, League City, Texas

**Galactic cosmic ray composition, spectra, and time variations**

Wiedenbeck, M. E., Binns, W. R., Cummings, A. C., Davis, A. J., de Nolfo, G., Israel, M. H., Leske, R. A., Mewaldt, R. A., Stone, E. C., and von Roseninge, T. T.  
European Planetary Science Congress, Berlin, Germany, 18 - 22 September 2006

**On the Solar Wind Elemental Composition: Constraints on the Origin of the Solar Wind**

Zurbuchen, T. H. and von Steiger, R.  
SOHO-17. 10 Years of SOHO and Beyond, Proceedings of the conference held 7-12 May, 2006 at Giardini Naxos, Sicily, Italy.

**Impulsive Solar Energetic Particle Event Ion Composition and Spectra**

Mason, G. M., invited talk (60 min.) presented at the International Space Science Institute (ISSI) International Team Project Meeting on Impulsive SEP Events, Bern, Switzerland, Jan. 30 - Feb. 2., 2006.

**A tutorial on solar energetic particle events**

Desai, M. I., G. M. Mason, J. E. Mazur, J. R. Dwyer, , invited talk (30 min., talk PL16) presented at the International Living With a Star (ILWS) Workshop on "The Solar Influence on the Heliosphere and Earth's Environment: Recent Progress and Prospects", Goa, India, Feb. 19-24, 2006.

Mason, G. M., "Recent progress in understanding 3He-rich solar energetic particle events", (60 min.) Colloquium, Space Science Laboratory, Univ. of California, Berkeley, Calif, Nov. 3, 2006.

## **2005**

### **29th International Cosmic Ray Conference, August 2005, Pune India**

#### **Conference Proceedings Papers**

**Cosmic Ray Neon, Wolf-Rayet Stars, and the Origin of GCRs**

W.R. Binns, M.E. Wiedenbeck, M. Arnould, A.C. Cummings, J.S. George, S. Goriely, M.H. Israel, R.A. Leske, R.A. Mewaldt, G. Meynet, L. M. Scott, E.C. Stone, and T.T. von Roseninge

**Extended Energy Elemental Spectrum Measurements with the Solar Isotope Spectrometer (SIS)**

A. W. Labrador, C. M. S. Cohen, A. C. Cumming, R. A. Leske, R. A. Mewaldt, E. C. Stone, T. T. von Rosenvinge, M. E. Wiedenbeck.

**Ultra-Heavy Elements Above 10 MeV/nucleon in Solar Energetic Particle Events**

R.A. Leske, C.M.S. Cohen, A.C. Cummings, R.A. Mewaldt, E.C. Stone, M.E. Wiedenbeck, T.T. von Rosenvinge

**Intensity Gradients of Anomalous Cosmic Rays Between 1 AU and Voyager During Solar Cycle 23**

R.A. Leske, A.C. Cummings, C.M.S. Cohen, R.A. Mewaldt, E.C. Stone, M.E. Wiedenbeck, T.T. von Rosenvinge

**Solar-Particle Energy Spectra during the Large Events of October-November 2003 and January 2005.**

R.A. Mewaldt, M. D. Looper, C.M.S. Cohen, G.M. Mason, D.K. Haggerty, M.I. Desai, A.W. Labrador, R.A. Leske, J.E. Mazur

**Gradual Solar Energetic Particle Events with 'Impulsive' Composition**

T.T. von Rosenvinge, C.M.S. Cohen, A.C. Cummings, R.A. Leske, R.A. Mewaldt, E.C. Stone, and M.E. Wiedenbeck

**The Time Variation of Energetic  $^4\text{He}$  in Interplanetary Space from 1997 to 2005**

M.E. Wiedenbeck, G.M. Mason, C.M.S. Cohen, A.C. Cummings, J.R. Dwyer, R.E. Gold, S.M. Krimigis, R.A. Leske, J.E. Mazur, R.A. Mewaldt, E.C. Stone, T.T. von Rosenvinge

**What Fraction of the Kinetic Energy of Coronal Mass Ejections goes into Accelerating Solar Energetic Particles?**

R.A. Mewaldt, C.M.S. Cohen, G.M. Mason, D. K. Haggerty, M. D. Looper, A. Vourlidis, M.I. Desai, J. Giacalone, A.W. Labrador, R.A. Leske, and J.E. Mazur

**Solar Energetic Particle Spectra and Composition in the October/November 2003 Events**

C.M.S. Cohen, G.M. Mason, E.C. Stone, R.A. Mewaldt, R.A. Leske, M.I. Desai, A.C. Cummings, T.T. von Rosenvinge, M.E. Wiedenbeck.

**ACE/NOZOMI Multispacecraft Observations of Solar Energetic Particles**

H. Miyasaka, E.C. Stone, R.A. Mewaldt, G.M. Mason, D.K. Haggerty, K. Nagata, J. Kikuchi, T. Doke, N. Hasebe, K. Maezawa, T. Takashima, A. Ihara, A. Matsuoka

**Energetic Particle Responses to Interplanetary Shocks Observed by ACE**

C.M.S. Cohen, R.A. Mewaldt, C.W. Smith, R.M. Skoug, G.C. Ho, A. Szabo.

**The Level of Solar Modulation of Galactic Cosmic Rays from 1997 to 2005 as Derived from ACE Measurements of Elemental Energy Spectra**

M.E. Wiedenbeck, A.J. Davis, R.A. Leske, W.R. Binns, C.M.S. Cohen, A.C. Cummings, G. de Nolfo, M.H. Israel, A.W. Labrador, R.A. Mewaldt, L.M. Scott, E.C. Stone, T.T. von Rosenvinge

**The Cosmic Ray Radiation Dose in Interplanetary Space – Present Day and Worst-Case Evaluations**

R.A. Mewaldt, A.J. Davis, W.R. Binns, G.A. de Nolfo, J.S. George, M.H. Israel, R. A. Leske, E.C. Stone, M.E. Wiedenbeck and T.T. von Rosenvinge

**Solar and heliospheric sources of suprathermal and energetic particle populations**

P. Király, W.I. Axford, E.I. Daibog, B. Heber, R. Kallenbach, K. Kecskeméty, G.M. Mason, Yu.I. Logachev, R.A. Mewaldt, A. Posner, J. Rodríguez-Pacheco, R. Treumann, M.A. Zeldovich

**Energy dependence of cumulative suprathermal and energetic particle fluence plots**

P. Király, G.M. Mason, R.A. Mewaldt, A. Posner, J. Rodríguez-Pacheco

**Dependence of decay rates of SEP events on characteristics of interplanetary medium and on radial distance**

K. Kecskeméty, E.I. Daibog, Yu.I. Logachev, J. Kóta, and R.A. Mewaldt

**Quiet time fluxes and radial gradients of low-energy protons in the inner and outer heliosphere**

K. Kecskeméty, M.A. Zeldovich, Yu.I. Logachev, B. Heber, P. Király, R.A. Mewaldt, A. Posner, J. Rodríguez-Pacheco

**The effect of cosmic ray energy changes in the heliosphere on K-capture secondaries**

R.A. Caballero-Lopez, H. Moraal, F.B. McDonald, R.A. Mewaldt

**Finite time shock acceleration and fits to ESP ion spectra**

C. Channok, D. Ruffolo, M. I. Desai, and G. M. Mason

**SHINE 2005, July 10-15, 2005, Hawaii**

**Talks**

**Transient Shocks and Associated Energetic Particle Events Observed by ACE during Solar Cycle 23**

George C. Ho, David Lario, Robert B. Decker, Mihir I. Desai, Qiang Hu

**Suprathermal Tails**

Thomas H Zurbuchen, G. Gloeckler, L. A. Fisk,

**Pre-accelerated seed populations of energetic particles in the heliosphere**

Nathan A. Schwadron, Southwest Research Institute

**Statistical Acceleration in the Corona and Solar Wind**

L. A. Fisk, University of Michigan

**Diffusion of Open Magnetic Flux and Its Consequences**

L. A. Fisk and T. H. Zurbuchen, University of Michigan

**Relating the Sub-Parker Spiral Structure of the Heliospheric Magnetic Field to Dynamic Sources of Solar Wind**

Nathan A. Schwadron, Southwest Research Institute

**Post-Shock Compression and Forward-Reverse Shock Pair Resulting From CME Interaction With a Bimodal Solar Wind**

W. B. Manchester, T. H. Zurbuchen, J. Kota, T. I. Gombosi, D. L. DeZeeuw, I. V. Sokolov, G. Toth

**Solar Energetic Particle Observations during the Large Solar Particle Events of October, November, 2003**

R. A. Mewaldt, C. M. S. Cohen, A. W. Labrador, and R. A. Leske, G. M. Mason and M. I. Desai, M. D. Looper, J. E. Mazur, & R. S. Selesnick

**Finite time shock acceleration and fits to ESP ion spectra**

Channok, C., Ruffolo, D., Desai, Mihir, M. I., and Mason, G. M.,

**Posters**

**Heavy Ion Spectra and Composition of the Halloween 2003 SEP Events**

Cohen, C. M. S.<sup>1</sup>, Mason, G. M. <sup>2</sup>, Stone, E. C.<sup>1</sup>, Mewaldt, R. A.<sup>1</sup>, Leske, R. A.<sup>1</sup>, Desai, M. I.<sup>2</sup>, Cummings, A.C.<sup>1</sup>, von Roseninge, T. T.<sup>3</sup>, Wiedenbeck, M. E.<sup>4</sup> (1California Institute of Technology, <sup>2</sup>University of Maryland, <sup>3</sup>NASA/Goddard Space Flight Center, <sup>4</sup>Jet Propulsion Laboratory)

**Transport of the solar open flux with spatial diffusion - 2D simulation**

Ofer Cohen, Lennard A. Fisk, Aaron J. Ridley, Ilia I. Roussev, and Tamas I. Gombosi

**Heating of Heavy Ions by coronal Mass Ejection Driven Collisionless Shocks**

K.E. Korreck, T.H. Zurbuchen, S.T. Lepri

**How significant is electron impact ionization in producing He<sup>+</sup> PUI at and within 1 AU?**

E. Moise (Univ. of Arizona), J. Steinfeldt (Univ. of Arizona), R. Cook (Univ. of Arizona), K.C. Hsieh (Univ. of Arizona), T.H. Zurbuchen (Univ. of Michigan), J.T. Gosling (LANL), and G. Gloeckler (Univ. of Michigan)

**Scattering of suprathermal electrons in the solar wind**

C. Pagel, BU, P Gary, LANL, N. Crooker, R Skoug LANL, C de Konig, LANL



## **Fe Charge states in and outside Magnetic Clouds**

H. Xie, N. Gopalswamy, and S. Lepri

## **Elemental abundance variations of solar energetic particles at low energies as measured by WIND/STEP over the last solar cycle**

M. Al-Dayeh, J. R. Dwyer, H. K. Rassoul, G. M. Mason, M. I. Desai, and J. E. Mazur

## **Energy Dependent Broadening of Low-Energy Solar Electron Bursts**

Curt A. de Koning, S. Peter Gary, J. T. Gosling, Ruth M. Skoug, John T. Steinberg, LANL

## **Solar Proton and Near-relativistic Electron Events -- What is the relationship?**

Dennis Haggerty and Edmond Roelof JHUAPL

## **Extending Measurements of Ultra-Heavy Elements in Solar Energetic Particle Events to Higher Energies**

Leske, R.A.<sup>1</sup>, Cohen, C.M.S.<sup>1</sup>, Cummings, A.C.<sup>1</sup>, Mewaldt, R.A.<sup>1</sup>, Stone, E.C.<sup>1</sup>, Wiedenbeck, M.E.<sup>2</sup>, and von Roseninge, T.T.<sup>3</sup> (1) California Institute of Technology

## **Solar Wind 11/SOHO 16 – June 2005, Whistler, Canada**

**Note: Entries with Links are Conf. Proceedings Papers**

### **Talks**

#### **Relationship of Solar Flare Accelerated Particles to Solar Energetic Particles (SEPs) Observed in the Interplanetary Medium**

*Lin, Robert<sup>1</sup>; Shih, A. Y. <sup>1</sup>; Krucker, S.<sup>1</sup>; Share, G.<sup>2</sup>; Murphy, R.<sup>2</sup>; Smith, D. M.<sup>3</sup>; Mewaldt, R. <sup>4</sup>; Cohen, C. M. S.<sup>4</sup>; Looper, M. D.<sup>5</sup>; Mason, G.<sup>6</sup>; Haggerty, D. K.<sup>7</sup>*

#### **[How Efficient are Coronal Mass Ejections at Accelerating Solar Energetic Particles?](#)**

*Mewaldt, R. A.<sup>1</sup>; Vourlidas, A. <sup>2</sup>; Mason, G. M.<sup>3</sup>; Haggerty, D. K.<sup>4</sup>; Looper, M. D. <sup>5</sup>; Cohen, C. M. S. <sup>1</sup>; Desai, M. I. <sup>3</sup>; Leske, R. A.<sup>1</sup>; Mazur, J. E.<sup>5</sup>*

#### **Composition and Spectra from the October/November 2003 Energetic Particle Events**

*Cohen, C. M. S.<sup>1</sup>; Mason, G. M.<sup>2</sup>; Stone, E. C.<sup>1</sup>; Mewaldt, R. A.<sup>1</sup>; Leske, R. A.<sup>1</sup>; Looper, M. D.<sup>3</sup>; Desai, M. I.<sup>2</sup>; Cummings, A. C.<sup>1</sup>; von Roseninge, T. T.<sup>4</sup>; Wiedenbeck, M. E. <sup>5</sup>*

#### **[Ionic Charge States of Mg, Si and Fe in Fe-Rich Solar Energetic Particle Events](#)**

*Klecker, Berndt<sup>1</sup>; Möbius, E.<sup>2</sup>; Popecki, M.A.<sup>2</sup>; Kistler, L.M. <sup>2</sup>; Kucharek, H.<sup>2</sup>; Hilchenbach, M.<sup>3</sup>*

**Statistical Properties of Fast Forward Transient Interplanetary Shocks and Associated Energetic Particle Events: ACE Observations**

*Lario, David<sup>1</sup>; Hu, Q.<sup>2</sup>; Ho, G. C.<sup>1</sup>; Decker, R. B.<sup>1</sup>; Smith, C. W.<sup>3</sup>*

**Particle Acceleration at Quasi-Perpendicular Interplanetary Shocks**

*Zank, Gary<sup>1</sup>; Li, Gang<sup>1</sup>; Smith, C.W.<sup>2</sup>*

**Evolution of Inner Source Pickup Ion Distributions – Potential for Further Acceleration?**

*Moebius, Eberhard<sup>1</sup>; Bochsler, P.<sup>2</sup>; Wimmer-Schweingruber, R.<sup>3</sup>; Kallenbach, R. 4;  
Klecker, B.<sup>5</sup>; Kucharek, H.<sup>6</sup>; Popecki, M.A.<sup>6</sup>*

**Dissipation of the Perpendicular Turbulent Cascade in the Solar Wind**

*Markovskii, Sergei; Vasquez, B.; Smith, C.; Hollweg, J.*

**Solar Wind Heavy Ion Speed and Density Comparisons**

*Ipavich, Fred<sup>1</sup>; Paquette, J.<sup>1</sup>; Lasley, S.<sup>1</sup>; Gloeckler, G.<sup>1</sup>; Zurbuchen, T.<sup>2</sup>*

**Distribution of Open Magnetic Flux Outside of Coronal Holes**

*Fisk, L.A.*

**Magnetic Reconnection in the Solar Wind**

*Gosling, John*

**The Breakout Model for CME Initiation in 3-Dimensions**

*Lynch, Benjamin<sup>1</sup>; Antiochos, S. K.<sup>2</sup>; DeVore, C. R.<sup>3</sup>; Zurbuchen, T. H.<sup>4</sup>*

**Posters**

**Anomalous Cosmic Ray Oxygen Intensity Gradients Between ACE and Voyager**

*Leske, R. A.<sup>1</sup>; Cummings, A. C.<sup>1</sup>; Cohen, C. M. S.<sup>1</sup>; Mewaldt, R. A.<sup>1</sup>; Stone, E. C.<sup>1</sup>;  
Wiedenbeck, M. E.<sup>2</sup>; von Rosenvinge, T. T.<sup>3</sup>*

**Consolidation of the Physical Interstellar Medium Parameters and Neutral Gas Filtration - Coordinated Effort at ISSI**

*Moebius, Eberhard<sup>1</sup>; Bzowski, M.<sup>2</sup>; Fahr, H.-J.<sup>3</sup>; Frisch, P. C.<sup>4</sup>; Gangopadhyay, P.<sup>5</sup>;  
Gloeckler, G.<sup>6</sup>; Izmodenov, V. 7; Lallement, R.<sup>8</sup>; Mueller, H.-R.<sup>9</sup>; Pryor, W.<sup>10</sup>;  
Raymond, J.<sup>11</sup>; Richardson, J.<sup>12</sup>; Scherer, K.<sup>13</sup>; Slavin, J.<sup>11</sup>; Witte, M. 14*

**Impact of Dense Interstellar Gas Clouds on the Neutral Gas and Secondary Particle Environment in the Inner Heliosphere**

*Moebius, Eberhard<sup>1</sup>; Bzowski, M.<sup>2</sup>; Mueller, H.-R.<sup>3</sup>; P., Wurza<sup>4</sup>*

**Cross Helicity and Anisotropy in Slow and Fast Solar Wind**

*Dasso, Sergio<sup>1</sup>; Matthaeus, W.H.<sup>2</sup>; Milano, L.J.<sup>2</sup>; Smith, C.W.<sup>3</sup>*

**Solar Electron Bursts Observed Below 1.4 keV by ACE: Characteristics and Implications for Particle Transport**

*de Koning, Curt; Gosling, J T; Skoug, R M; Steinberg, J T; Gary, S P*

### **Solar Proton and Near-relativistic Electron Events - What is the Relationship?**

*Haggerty, Dennis; Roelof, E.C.*

### **Multi-spacecraft Observations of Interplanetary Shock Accelerated Particle Events**

*Ho, George<sup>1</sup>; Lario, D.<sup>1</sup>; Decker, R.B.<sup>1</sup>; Desai, M.I.<sup>2</sup>; Hu, Q.<sup>3</sup>; Vinas, A.F.<sup>4</sup>*

### **On Shock Acceleration to Low-energy Ions**

*Kallenbach, Reinald<sup>1</sup>; Bamert, K.<sup>2</sup>; Hilchenbach, M.<sup>3</sup>; Smith, C.W.<sup>4</sup>*

### **Sources and Acceleration of Energetic He<sup>+</sup> in Interplanetary Space**

*Kucharek, Harald<sup>1</sup>; Moebius, E.<sup>1</sup>; Lu, Y.<sup>1</sup>; Smith, C.<sup>1</sup>; Klecker, B.<sup>2</sup>; Farrugia, C.<sup>1</sup>; Popecki, M.<sup>1</sup>; Galvin, A.<sup>1</sup>; Hilchenbach, M.<sup>3</sup>; Bochsler, P.<sup>4</sup>*

### **A Survey of H, He, and Electron Spectra in Large Solar Particle Events**

*Mewaldt, R. A.<sup>1</sup>; Mason, G. M. <sup>2</sup>; Haggerty, D. K. <sup>3</sup>; Looper, M. D.<sup>4</sup>; Selesnick, R. S. <sup>4</sup>; Cohen, C. M. S.<sup>1</sup>; Desai, M. I.<sup>2</sup>; Labrador, A. W.<sup>1</sup>; Leske, R. A.<sup>1</sup>; Mazur, J. E.<sup>4</sup>*

### **Spatial Structure of Solar Electron Bursts: Two-Point Observations using Genesis and ACE**

*Steinberg, John T; de Koning, C. A.; Gosling, J. T. ; Skoug, R. M. ; Wiens, R.C.*

### **Comparison between Impulsive 3He-rich Events and Energetic Electron Events**

*Wang, Linghua<sup>1</sup>; Lin, R. P.<sup>2</sup>; Krucker, S.<sup>3</sup>; Mason, G. M.<sup>4</sup>*

### **ACE Observations of 3He from Impulsive Solar Energetic Particle Events**

*Wiedenbeck, M. E.<sup>1</sup>; Mason, G. M.<sup>2</sup>; Cohen, C. M. S.<sup>3</sup>; Cummings, A. C.<sup>3</sup>; Dwyer, J. R.<sup>4</sup>; Gold, R. E.<sup>5</sup>; Krimigis, S. M.<sup>5</sup>; Leske, R. A.<sup>3</sup>; Mazur, J. E.<sup>6</sup>; Mewaldt, R. A.<sup>3</sup>; Stone, E. C.<sup>3</sup>; von Rosenvinge, T. T.<sup>7</sup>*

### **Correlation of Speed and Temperature in the Solar Wind**

*Matthaeus, William H<sup>1</sup>; Elliott, H <sup>2</sup>; McComas, D<sup>2</sup>; Smith, C W <sup>3</sup>*

### **Heavy Ions in the Solar Wind: A New Dataset From ACE**

*Raines, Jim<sup>1</sup>; Zurbuchen, T. H.<sup>2</sup>; Lepri, S.<sup>2</sup>; Gloeckler, G.<sup>3</sup>; Fisk, L. A.<sup>2</sup>*

### **The Genesis Mission: Solar Wind Conditions, and Implications for the FIP Fractionation of the Solar Wind**

*Reisenfeld, Daniel<sup>1</sup>; Wiens, R C<sup>2</sup>; Barraclough, B L<sup>2</sup>; Steinberg, J T<sup>2</sup>; DeKoning, C<sup>2</sup>; Zurbuchen, T<sup>3</sup>; Burnett, D S<sup>4</sup>*

### **Dissipation Range Spectral Characteristics at 1 AU**

*Smith, Charles W.<sup>1</sup>; Hamilton, K.<sup>1</sup>; Leamon, R. J.<sup>2</sup>*

### **Variance Anisotropy in the Inertial Range**

*Smith, Charles W.; Hamilton, K.; Vasquez, B. J.*

## **Variability of the Nitrogen Abundance in the Solar Wind and Implications for Past Solar Activity**

*Wimmer-Schweingruber, Robert F.1; Bochsler, P.2; Gloeckler, G.3; Geiss, J.4; Kallenbach, R.4; Wurz, P.2; Zurbuchen, T.5*

## **Turbulence and Third Moment of Fluctuations: Kolmogorov's 4/5 law and its MHD Analogues in the Solar Wind**

*Forman, Miriam1; Smith, CW2; MacBride, BT2*

## **Observations of Solar Wind Features from Spacecraft Separated in Heliolongitude**

*Lazarus, A.J.1; Kasper, J.1; Ashmall, J.1; Skoug, R.2; Steinberg, J.2; Ogilvie, K.3; Szabo, A.4; Smith, C.5; Quiang, H.6*

## **Solar Wind from the Coronal Hole Boundaries**

*Schwadron, N.A.1; McComas, D.J. 1; Elliott, H.A.1; Gloeckler, G.2; Geiss, J.3; von Steiger, R.3*

## **Unraveling Space and Time in the Solar Wind: Preliminary Results on the 3D Magnetic Autocorrelation from ACE and WIND Simultaneous Data**

*Weygand, J1; Matthaeus, W H 2; Dasso, S3; Milano, L J 4; Kivelson, M G 1; Smith, C W 5*

## **Morphology and Evolution of the Heliospheric Current and Plasma Sheets from 1 to 5 AU**

*Zhou, Xiaoyan 1; Smith, Edward1; Winterhalter, Daniel 1; McComas, Dave2; Skoug, Ruth3; Goldstein, Bruce1; Smith, Charles4*

## **Characteristics of ICMEs with and without High Charge States: Implications for their Eruption and Expansion into Interplanetary Space**

*Lepri, Susan; Lawitzke, A.; Zurbuchen, T. H.*

## **ISSI Workshop on "Interplanetary Suprathermal and Energetic Particle Spectral and Intensity Distributions throughout the Solar Cycle" April 11-15, 2005**

### **Fluences of Solar, Interplanetary, and Galactic Particles over the Solar Cycle**

*R. A. Mewaldt, G. Gloeckler, and G. M. Mason*

### **Comparison of SEP and CME Kinetic Energies**

*R, A. Mewaldt, C. M. S. Cohen, G. M. Mason, M. L. Looper, M. I. Desai, D. K. Haggerty, A. W. Labrador, R. A. Leske, J. E. Mazur, and R. S. Selesnick*

### **Energetic Particles Accelerated by Shocks in the Heliosphere: What is the Source Material?**

*G. M. Mason, M. Desai, J. Mazur, and J. Dwyer*

## **ISSI Workshop on "Solar Dynamics and its Effects on the Heliosphere and Earth" April 18-22, 2005.**

### **Solar Energetic Particle Composition and Energy Spectra**

R. A. Mewaldt

### **Structure and Evolution of the Global Heliosphere**

Thomas Zurbuchen

### **Seed Particles for Solar Energetic Particle Events**

Mihir Desai

### **The Ionic Charge States of Solar Energetic Particle Events**

Berndt Klecker

## **IGPP-UC Riverside Astrophysics Conference, Palm Springs, CA, Feb 26-March 3, 2005.**

Desai, M. I., G. M. Mason, J. E. Mazur, and J. R. Dwyer, "**Properties of the suprathermal seed population for interplanetary shocks near 1 AU**", Invited paper

Mazur, J. E., G. M. Mason, M. Popecki, and B. Klecker, "**Solar particle charge states as clues to shock processes**", Invited paper

Lario, D., G. C. Ho, Q. Hu, R. B. Decker, M. I. Desai, and C. W. Smith, "**Associations between interplanetary transient shock parameters and >47 keV ion intensity histories**", Invited paper

Mason, G. M., M. I. Desai, J. E. Mazur, and J. R. Dwyer, "**What material is accelerated by interplanetary shocks?**"

Mewaldt, R. A., C. M. S. Cohen, A. W. Labrador, R. A. Leske, E. C. Stone, G. M. Mason, M. I. Desai, M. R. Looper, R. S. Selesnick, J. E. Mazur, D. K. Haggerty, M. E. Wiedenbeck, and T. T. von Rosenvinge, "**Spectra and energy content of ions accelerated in large solar particle events**"

Kucharek, Harald; Möbius, Eberhard, "**Ion Dynamics at Shocks: Ion Reflection and Beam Formation at Quasi-perpendicular Shocks**"

Kallenbach, R.; Bamert, K.; Hilchenbach, M.; Smith, C. W., "**Observations of Turbulence near Interplanetary Travelling Shocks**"

## **AGU Meetings 2005**

### **Stochastic Ion Acceleration in 3He-Rich Solar Energetic Particle Events**

Liu, S., V.Petrosian, and G.M.Mason.

AGU Spring Meeting Abstracts

### **Angular Distribution of Neutral Atoms in the Solar Wind on October 24 & 31, 2003**

Vieira, G.B., M.E.Hill, D.C.Hamilton, M.- Fok, M.R.Collier,

T.E.Moore, D.G.Mitchell, R.M.Skoug, and M.I.Desai.

AGU Spring Meeting Abstracts

### **Magnetic Disconnection From the Sun: Observations of a Reconnection Exhaust in the Solar Wind at the Heliospheric Current Sheet**

Gosling, J.T., R.M.Skoug, D.J.McComas, and C.W.Smith.

AGU Spring Meeting Abstracts

### **In situ observation of filament plasma and their magnetic structure**

Zurbuchen, T.H., J.Raines, B.Lynch, S.Lepri, G.Gloeckler, and

L.Fisk.

AGU Spring Meeting Abstracts

### **Energetic Particle Effects Associated With Reconnection in the Solar Wind**

Gosling, J.T., R.M.Skoug, and D.K.Haggerty.

AGU Spring Meeting Abstracts

### **Investigating Coronal Origin of the Solar Wind, a Joint SOHO/UVCS and ACE/SWICS Analysis**

Ko, Y., T.Zurbuchen, J.C.Raymond, P.Riley, and L.Strachan.

AGU Spring Meeting Abstracts

### **STEREO Views of Solar Energetic Particle Events: New Light on old Controversies**

Mewaldt, R.A..

AGU Spring Meeting Abstracts

### **Energy Dependent Charge States and their Correlation with Abundances in Impulsive Solar Events**

Difabio, R., E.Moebius, M.A.Popecki, H.Kucharek, B.Klecker, M.Desai,

and G.M.Mason.

AGU Spring Meeting Abstracts

### **Solar and heliospheric physics at US universities**

Zurbuchen, T.H.and A.E.Grant.

AGU Spring Meeting Abstracts

### **Thickness of Heliospheric Current and Plasma Sheets: Dependence on Distance**

Zhou, X., E.J.Smith, D.Winterhalter, D.J.McComas, R.M.Skoug,  
B.E.Goldstein, and C.W.Smith.  
AGU Spring Meeting Abstracts

**Folds in the Interplanetary Magnetic Field in High Speed Streams Observed with Ulysses and ACE**

Steinberg, J.T.and R.M.Skoug.  
AGU Spring Meeting Abstracts

**Energetic  $^3\text{He}$  in the Inner Heliosphere: 1997 to 2005**

Wiedenbeck, M.E., G.M.Mason, C.M.Cohen, A.C.Cummings, J.R.Dwyer,  
R.E.Gold, S.M.Krimigis, R.A.Leske, J.E.Mazur, R.A.Mewaldt,  
E.C.Stone, and T.T.von Roseninge.  
AGU Spring Meeting Abstracts

**Anomalous Solar Wind Composition Observed With SWICS on ACE in January 2005**

Gloeckler, G., T.H.Zurbuchen, L.A.Fisk, and J.Geiss.  
AGU Spring Meeting Abstracts

**Ion Abundances in Large Solar Energetic Particle Events**

Desai, M.I., G.M.Mason, J.E.Mazur, and J.R.Dwyer.  
AGU Spring Meeting Abstracts

**Injection and Propagation of Shock-Associated Solar Energetic Particles**

Mason, G.M., M.S.Freeman, M.I.Desai, J.R.Dwyer, and J.E.Mazur.  
AGU Spring Meeting Abstracts

**Composition and Ionic Charge State Measurements of the Large Solar Particle Event of 20 January 2005**

Labrador, A.W., C.M.Cohen, R.A.Leske, R.A.Mewaldt, E.C.Stone,  
M.E.Wiedenbeck, G.M.Mason, M.I.Desai, T.T.von Roseninge,  
M.D.Looper, J.E.Mazur, R.S.Selesnick, and D.K.Haggerty.  
AGU Spring Meeting Abstracts

**Solar Electron Bursts Observed Below 1.4 keV by ACE and Genesis: Characteristics and Implications for Particle Transport**

de Koning, C.A., J.T.Steinberg, R.M.Skoug, and J.T.Gosling.  
AGU Spring Meeting Abstracts

**Relationship of Solar Flare Accelerated Particles to Solar Energetic Particles (SEPs) Observed in the Interplanetary Medium**

Lin, R.P., A.Y.Shih, S.Krucker, D.M.Smith, R.Murphy, G.Share,  
R.Mewaldt, C.M.Cohen, M.D.Looper, G.M.Mason, and D.K.Haggerty.  
AGU Spring Meeting Abstracts

**Comparison between impulsive <sup>3</sup>He-rich events and energetic electron events**

Wang, L., R.P.Lin, S.Krucker, and G.M.Mason.

AGU Spring Meeting Abstracts

**Space Weather Implications of the 20 January 2005 Solar Energetic Particle Event**

Mewaldt, R.A., M.D.Looper, C.M.Cohen, G.M.Mason, M.I.Desai, D.K.Haggerty, A.W.Labrador, R.A.Leske, J.E.Mazur, E.C.Stone, T.T.von Rosenvinge, and M.E.Wiedenbeck.

AGU Spring Meeting Abstracts

**Predicting the Solar Wind**

Fisk, L.A., G.Gloeckler, and T.H.Zurbuchen.

AGU Spring Meeting Abstracts

**Anomalous Cosmic Ray Oxygen Intensity Gradients Between 1 AU and Voyager During the Cycle 23 Solar Maximum**

Leske, R.A., A.C.Cummings, C.M.Cohen, R.A.Mewaldt, E.C.Stone, M.E.Wiedenbeck, and T.T.von Rosenvinge.

AGU Spring Meeting Abstracts

**The October 28, 2003 and Nov 7, 2004 CME Events: A Data-Driven MHD Model and Comparative Impact Scenarios**

Roussev, I.I., I.V.Sokolov, Y.Liu, H.Elliott, T.I.Gombosi, and R.Skoug.

AGU Spring Meeting Abstracts

**Wind and ACE Detections of Extended Reconnection X-lines in Solar Wind Current Sheets**

Davis, M. S., Phan, T. D., Gosling, J. T., and Skoug, R. M.

AGU Fall Meeting Abstracts

**Three-Spacecraft Detections of a Magnetic Reconnection X-Line Extending More Than 390 Earth Radii in the Solar Wind**

Phan, T. D., Gosling, J. T., Davis, M. S., Skoug, R. M., Oieroset, M., Lin, R. P., Lepping, R., McComas, D. J., Smith, C. W., Reme, H., and Balogh, A.

AGU Fall Meeting Abstracts

**Reconnection Exhausts in the Solar Wind Well Beyond 1 AU: Ulysses**

Gosling, J. T., Eriksson, S., McComas, D. J., Skoug, R. M., and Forsyth, R.

J.

AGU Fall Meeting Abstracts

**The Great Heliosphere Observatory: Enabling Breakthrough Science**

Zurbuchen, T. H.

AGU Fall Meeting Abstracts



**Survey of interplanetary shock characteristics**

Kasper, J. C., Lazarus, A. J., Szabo, A., Ogilvie, K. W., Skoug, R., Steinberg, J. T., and Smith, C.  
AGU Fall Meeting Abstracts

**Whistler Scattering of Suprathermal Electrons in the Solar Wind: ACE Observations**

Pagel, C., Gary, S. P., Dekoning, C. A., Skoug, R. M., and Steinberg, J. T.  
AGU Fall Meeting Abstracts

**The Genesis Mission: Solar Wind Conditions and the Application of ACE/SWICS in Situ Measurements to the Genesis Sample Analysis**

Reisenfeld, D. B., Wiens, R. C., Barraclough, B. L., Steinberg, J. T., Dekoning, C. A., Raines, J., Zurbuchen, T. H., and Burnett, D. S.  
AGU Fall Meeting Abstracts

**From Sun to Earth: The January 20, 2005 Space Weather Event**

Steigies, C. T., Klassen, A., Bamert, K., Burmeister, S., Beaujean, R., Reitz, G., Müller-Mellin, R., and Wimmer-Schweingruber, R. F.  
AGU Fall Meeting Abstracts

**Ion Acceleration and Wave-Particle Interaction at the Interplanetary Shocks Associated with the Halloween 2003 and the 20 January 2005 Events:**

SOHO/HSTOF, SOHO/EPHIN, and ACE/MAG Observations.  
Bamert, K., Wimmer-Schweingruber, R. F., Kallenbach, R., Hilchenbach, M., Müller-Mellin, R., Klassen, A., and Smith, C. W.  
AGU Fall Meeting Abstracts

**Comparison Between Ground-Based and Direct Spacecraft Observations of Solar Energetic Particle Spectra During the January 20, 2005 Solar Flare**

Miyasaka, H., Mewaldt, R. A., Stone, E. C., Looper, M. D., Mason, G. M., and Haggerty, D. K.  
AGU Fall Meeting Abstracts

**Solar Energetic Particle Composition, Energy Spectra and Timing in the January 20, 2005 Event**

Mewaldt, R. A., Cohen, C. M., Leske, R. A., Labrador, A. W., Mason, G. M., Haggerty, D. K., Looper, M. D., Mazur, J. E., Selesnick, R. S., and Desai, M. I.  
AGU Fall Meeting Abstracts

**Properties of ICMEs in the declining phase of solar cycle 23**

Elliott, H. A., Skoug, R. M., Steinberg, J. T., and Richardson, I. G.  
AGU Fall Meeting Abstracts

**Implications of Ionic Charge State Measurements on Particle Acceleration in the 20 January 2005 Solar Particle Event**

Labrador, A. W., Leske, R. A., Mewaldt, R. A., Stone, E. C., and von Rosenvinge, T. T.  
AGU Fall Meeting Abstracts

**Injection Timing of Near-Relativistic Proton and Electrons: Context for the 20 January 2005 Solar Energetic Particle Event**

Haggerty, D. K. and Roelof, E. C.  
AGU Fall Meeting Abstracts

**Measurements of Ultra-Heavy Elements in Solar Energetic Particle Events Above 10 MeV/nucleon**

Leske, R. A., Cohen, C. M., Cummings, A. C., Mewaldt, R. A., Stone, E. C., Wiedenbeck, M. E., and von Rosenvinge, T. T.  
AGU Fall Meeting Abstracts

**Acceleration of He<sup>+</sup> and 3He Ions at CME-driven Interplanetary Shocks Near Earth**

Allegrini, F., Desai, M. I., Kucharek, H., Mason, G. M., Möbius, E., and Posner, A.  
AGU Fall Meeting Abstracts

**Heavy-ion Composition of Solar Energetic Particles Observed During 3He-rich Periods**

Wiedenbeck, M. E., Cohen, C. M., Cummings, A. C., Leske, R. A., Mewaldt, R. A., Stone, E. C., and von Rosenvinge, T.  
AGU Fall Meeting Abstracts

**Particle Acceleration at Perpendicular Shock Waves: Model and Observations**

Zank, G. P., Li, G., Florinski, V., Hu, Q., Smith, C. W., and Lario, D.  
AGU Fall Meeting Abstracts

**Other 2005 Meetings/Conferences**

**Wolf-Rayet Stars, and the Origin of Galactic Cosmic Rays**

W. R. Binns, M. E. Wiedenbeck, M. Arnould, A. C. Cummings, J. S. George, S. Goriely, M. H. Israel, R. A. Leske, R. A. Mewaldt, G. Meynet, L. M. Scott, E. C. Stone, and T. T. von Rosenvinge, Astronomy with Radioactivities V, Clemson, SC, USA, September 2005

**Superbubbles, Wolf-Rayet Stars, and the Origin of Galactic Cosmic Rays**

W. R. Binns, M. E. Wiedenbeck, M. Arnould, A. C. Cummings, J. S. George, S. Goriely, M. H. Israel, R. A. Leske, R. A. Mewaldt, G. Meynet, L. M. Scott, E. C. Stone, and T. T. von Rosenvinge, Physics at the End of the Galactic Cosmic Ray Spectrum Conference 26–30 April 2005, Aspen, Colorado, USA

### **Effect of Coronal Mass Ejection Interactions on the SOHO/CELIAS/MTOF Measurements**

Wang, X., P. Wurz, P. Bochsler, F. Ipavich, J. Paquette, and R. F. Wimmer-Schweingruber.  
IAU Symposium

### **Cosmic Ray Isotopes, Wolf-Rayet Stars, and the Superbubble Origin of Galactic Cosmic Rays**

W. R. Binns, M. E. Wiedenbeck, M. Arnould, A. C. Cummings, J. S. George, S. Goriely, M. H. Israel, R. A. Leske, R. A. Mewaldt, G. Meynet, L. M. Scott, E. C. Stone, and T. T. von Roseninge, (2005), Astronomy with Radioactivities V Conference

Desai, M. I., G. M. Mason, J. E. Mazur, J. R. Dwyer, and T. T. von Roseninge, “**The source population for upstream ion events near the Earth’s bow shock**”, Invited paper, (15 min), European Geosciences Union, Vienna, Austria, April 24-29, 2005, Geophysical Research Abstracts, 7, 02925, 2005

Mason, G. M., “**Solar energetic particle acceleration -- recent progress and current issues**”, invited talk (25 min.) presented at the STEREO/Solar-B Science Planning Workshop, Turtle Bay, Oahu, Hawaii, Nov. 15-18, 2005.

## **2004**

### **RHESSI/ SOHO/ TRACE Workshop: Coordinated observations of flares and CMEs, Sonoma, California, December 8-11, 2004**

#### **Extreme SEP Events**

*R. A. Mewaldt, Cohen, Labrador, Leske, Mason, Desai, Looper, Mazur*

#### **Spectra and composition of Solar Energetic Particles Associated with the Large Solar Events of October/November 2003**

*R. A. Mewaldt, Cohen, Labrador, Leske, Mason, Desai, Looper, Mazur*

#### **Coronal Mass Ejections: A Tutorial**

*J. T. Gosling*

#### **Heavy-Ion and Electron Release Times in Solar Energetic Particle Events**

*R. A. Mewaldt*

#### **The Energy Content of CMEs and SEPs**

*R. A. Mewaldt, Cohen, Labrador, Leske, Mason, Desai, Looper, Mazur*

## **SHINE 2004, June 22 – July 2, Montana**

### **Talks**

#### **Spectral Properties of Heavy Ions Associated With the Passage of interplanetary Shocks Near 1 AU**

Mihir Desai

#### **Abundances of Heavy and Ultra-Heavy Ions in 3He-rich Solar Flares**

Glenn Mason

#### **Drift velocity and initiation times of interplanetary type- III radio bursts**

Dennis Haggerty

#### **Correlated Dispersionless Modulations in Suprathermal Electron and Impulsive Energetic Ion Events in the Solar Wind**

Jack Gosling

#### **Compositional Signatures of ICMEs**

Thomas Zurbuchen

#### **An Overview of SEPs During the October-November 2003 Storms**

Christina Cohen

#### **Solar Energetic Particles: recent Observational Progress for shock-related and Impulsive Events**

Glenn Mason

#### **Non-Axisymmetric and Multi-tube Magnetic Flux Ropes in the Solar Wind**

Qiang Hu, Charles Smith, Norman Ness, and Ruth Skoug

### **Posters**

#### **Solar Energetic Particle Isotopic Composition During Extreme SEP Events**

Richard Leske, California Institute of Technology

#### **The delayed arrival of low-energy particles in gradual SEP events**

Joseph Dwyer, Florida Tech

#### **The adiabatic cooling effects in solar energetic particles transport**

G. Qin, J.R. Dwyer, M. Zhang, H.K. Rassoul, and M. Al-Dayeh , Florida Inst. of Technology

#### **ACE Observations of Elemental and Isotopic Composition in Impulsive Solar Energetic Particle Events**

Mark Wiedenbeck, Jet Propulsion Laboratory, Caltech

**An Improved Expected Temperature Formula For Identifying ICMEs**

Heather A. Elliott, Southwest Research Institute

**The October/November 2003 Solar Events: Heliospheric Disturbances**

Russell, C.T., Janet Luhmann, C. W. Smith, R. Skoug, M. Dougherty,  
D. Lario and L. Jian

**The October/November 2003 Solar Events: Demonstration of how the Solar Wind Controls the Radiation Belts**

M. Cartwright, C. T. Russell, R. Skoug, C. W. Smith, S. Kanakal and L.Jian

**35th COSPAR Assembly, July 2004, Paris France**

**Galactic Cosmic Ray Isotopic Abundances: Comparison with Wolf-Rayet Star Models**

Binns, W.R., M.E.Wiedenbeck, A.C.Cummings, M.H.Israel, R.A.Leske,  
R.A.Mewaldt, E.C.Stone, and T.T.von Roseninge.

**How do we explain the enhanced Fe/O at high energies in large SEP events?**

Cohen, C.M.S., A.C.Cummings, R.A.Leske, R.A.Mewaldt, E.C.Stone,  
T.T.von Roseninge, and M.E.Wiedenbeck.

**STEREO and ACE: Coordinated science using 3 vantage points**

Cohen, C.M.S., R.A.Mewaldt, G.C.Ho, G.M.Mason, M.A.Popecki,  
R.M.Skoug, C.W.Smith, E.C.Stone, and T.H.Zurbuchen.

**Spectral properties of heavy ions associated with interplanetary shocks near 1 AU**

Desai, M., G.Mason, C.Cohen, M.Wiedenbeck, J.Mazur, J.Dwyer, Q.Hu,  
C.Smith, and R.Skoug.

**Observations of energetic particles associated with CIRs: using the composition and energy spectra to identify the source populations**

Dwyer, J., G.Mason, M.Desai, and J.Mazur.

**Survey of intense Sun-Earth Connection Events during Solar Cycle 23 (1995-2003)**

Farrugia, C., H.Matsui, H.Kucharek, V.Jordanova, C.Smith,  
D.Berdichevsky, and R.Torbert.

**Correlated dispersionless modulations in suprathermal electron and impulsive energetic ion events in the solar wind**

Gosling, J.T., R.M.Skoug, D.J.McComas, and J.E.Mazur.

**Magnetic loop topologies in the vicinity of the heliospheric current sheet**

Gosling, J.T., R.M.Skoug, J.T.Steinberg, and D.J.McComas.

**A quantitative measure of strong pitch-angle anisotropies**

Haggerty, D.K.and E.C.Roelof.

**Effectiveness of anti-coincidence in electron detectors: Implications for beam-like electron events**

Haggerty, D.K.and E.C.Roelof.

**Effective drift velocity and initiation times of interplanetary type-III radio bursts**

Haggerty, D.K.and E.C.Roelof.

**Inter-calibration of ACE/EPAM from different detector heads: Implications for near-earth spacecraft operations**

Haggerty, D.K., E.C.Roelof, and R.E.Gold.

**Real-time Upstream Monitoring System (RUMS): Forecasting arrival times of interplanetary shocks using energetic particle data from ACE**

Ho, G., M.Donegan, J.Vandegriff, and K.Wagstaff.

**Energetic storm particle events observed on ACE and Wind during solar cycle 23**

Ho, G.C., M.I.Desai, D.Lario, R.B.Decker, and E.C.Roelof.

**Upper limit on <sup>3</sup>He fluence in solar energetic particle events**

Ho, G.C., E.C.Roelof, and G.M.Mason.

**Multispacecraft observations of diffuse ions upstream of Earth's bow shock**

Kis, A., M.Scholer, B.Klecker, E.Moebius, E.Lucek, and H.Reme.

**Flare material in large solar energetic particle events: what does it tell us?**

Klecker, B..

**Observation of energy-dependent ionic charge states in impulsive solar energetic particle events**

Klecker, B., E.Moebius, M.A.Popecki, M.Hilchenbach, L.M.Kistler, and H.Kucharek.

**Injection and acceleration of interstellar helium at interplanetary shocks**

Kucharek, H., E.Moebius, W.Li, C.Farrugia, M.Popecki, A.Galvin, B.Klecker, M.Hilchenbach, and P.Bochsler.

**The Energetic Storm Particle Event of October 24, 2003**

Lario, D., G.C.Ho, R.B.Decker, M.I.Desai, Q.Hu, and C.W.Smith.

**Correlation of solar wind features observed from well-separated spacecraft**

Lazarus, A., J.Kasper, J.Ashmall, R.Skoug, J.Steinberg, K.Ogilvie,

A.Szabo, C.Smith, and H.Quiang.

**A survey of solar energetic particle isotopic composition during solar cycle 23**

Leske, R.A., C.M.S.Cohen, R.A.Mewaldt, A.C.Cummings, E.C.Stone, M.E.Wiedenbeck, and T.T.von Roseninge.

**Modeling the solar particle events of October 28 and 29, 2003**

Li, G., G.Zank, R.Mewaldt, G.Mason, C.Cohen, and A.Labrador.

**Recent Observational Progress in Identifying the Real Seed Population for Shock Accelerated Energetic Particles**

Mason, G., M.Desai, J.Mazur, and J.Dwyer.

**Abundances of Heavy and Ultra-Heavy Ions in  $^3\text{He}$ -Rich Solar Flares**

Mason, G., J.Mazur, J.Dwyer, J.Jokipii, R.Gold, and S.Krimigis.

**The Most Intense SEP Events of Cycle 23: Specifications and Effects**

Mazur, J., J.Blake, M.Looper, G.Mason, R.Mewaldt, R.Leske, and C.Cohen.

**Impulsive and gradual SEP events: blurring the distinctions**

Mewaldt, R.A., C.M.Cohen, A.W.Labrador, R.A.Leske, E.C.Stone, T.T.von Roseninge, and M.E.Wiedenbeck.

**Q/M-dependent spectral breaks in the solar particle events of October 28 and 29, 2003**

Mewaldt, R.A.and The Ace/Sampex Team.

**New constraints on the interstellar spectrum of low-energy cosmic rays**

Mewaldt, R.A., M.E.Wiedenbeck, L.M.Scott, W.R.Binns, A.J.Davis, G.A.de Nolfo, M.H.Israel, R.A.Leske, E.C.Stone, and T.T.von Roseninge.

**Towards a Consolidated Set of Local Interstellar Parameters - Study by an ISSI Team**

Moebius, E.and The Issi Ism Team.

**Heliospheric response to the solar events of October and November, 2003**

Russell, C.T., G.Delory, M.Dougherty, D.Lario, J.G.Luhmann, R.Skoug, and C.W.Smith.

**Pickup Ion Transport in the Inner Heliosphere**

Saul, L.and E.Moebius.

**Elemental Abundance Variations Observed in Solar Energetic Particle Events during Solar Cycle 23**

von Roseninge, T.T., C.Cohen, A.C.Cummings, R.A.Leske, R.A.Mewaldt, E.C.Stone, and M.E.Wiedenbeck.

**Recent advances in the understanding of cosmic-ray origin and acceleration from composition studies**

Wiedenbeck, M.E., W.R.Binns, A.C.Cummings, G.de Nolfo, M.H.Israel, R.A.Leske, R.A.Mewaldt, E.C.Stone, and T.T.von Rosenvinge.

**Impulsive solar energetic particle events: new insights from observations in solar cycle 23**

Wiedenbeck, M.E., C.M.S.Cohen, A.C.Cummings, R.A.Leske, R.A.Mewaldt, E.C.Stone, and T.T.von Rosenvinge.

**Variability of N/O in the Solar Wind: ACE/SWIMS**

Wimmer-Schweingruber, R.F., P.Bochsler, P.Wurz, G.Gloeckler, J.Geiss, R.Kallenbach, and T.H.Zurbuchen.

**ICMEs with unusual, mass-fractionated composition**

Wurz, P., X.Wang, P.Bochsler, F.Ipavich, J.Paquette, and R.F.Wimmer-Schweingruber.

**The October/November 2003 Events: ACE and Ulysses Results**

Zurbuchen, T.H.and R.von Steiger.

**Chapman Conference on Solar Energetic Plasmas and Particles, Turku, Finland, August 2004**

**Solar Energetic Particle Events - A tutorial review**

T. T. von Rosenvinge

**Solar Energetic Particle Composition**

B. Klecker

**Energy Dependence of SEP Charge States**

**M. Popecki**

**The Source Material for Solar Energetic Particles**

R. A. Mewaldt

**Spectral and Compositional Characteristics Solar Energetic Particle Events**

A. J. Tylka

**Remnant Flare Suprathermals and the Seed Population for Shock-Accelerated Energetic Particles**

G. Mason



**Measurements of Energetic Storm Particles: An Overview**

C. M. S. Cohen

**Characteristics of Active Region Sources of Solar Wind near Solar Maximum**

P.C. Liewer, M. Naugebauer, T.H. Zurbuchen

**Spectral Properties of Heavy Ions Associated with the Passage of IP Shocks near 1AU**

M.I. Desai et al.

**The Isotopic Composition of Solar Energetic Particles in Large Solar Events**

R.A. Leske et al.

**The Role of CMEs and their Shocks in Determining SEP Abundances**

H.V. Cane, R.A. Mewaldt, C.M.S. Cohen, T.T. von Roseninge

**Energetic Storm Particle Events Observed on ACE and Wind during Solar Cycle 23**

G.C. Ho et al.

**AGU Meetings 2004**

**Elemental Abundance Variations of Gradual SEP Events at Low Energies as Measured by ACE/ULEIS and WIND/STEP Over the Last Solar Cycle**

Al-Dayeh, M., J.R.Dwyer, H.K.Rassoul, G.M.Mason, M.I.Desai, and J.E.Mazur.

AGU Fall Meeting Abstracts

**New constraints from the inner source pickup ions on the dust population near the sun**

Allegrini, F., N.A.Schwadron, D.J.McComas, and G.Gloeckler.

AGU Fall Meeting Abstracts

**Probing the Dayside Magnetosphere: Measurements by ACE Soon After Launch, August 25, 1997**

Briggs, H., T.Glines, C.J.Farrugia, V.K.Jordanova, and C.W.Smith.

AGU Fall Meeting Abstracts

**Lessons from Sequences of SEP Heavy Ion Events Associated with Active Region Passages Across the Disk**

Cid, X., J.G.Luhmann, R.A.Mewaldt, and C.M.Cohen.

AGU Fall Meeting Abstracts

**An Overview of SEPs During the October-November 2003 Storms**

Cohen, C.M., R.A.Mewaldt, G.M.Mason, M.I.Desai, A.C.Cummings,  
R.A.Leske, E.C.Stone, T.T.von Rosenvinge, and M.E.Wiedenbeck.  
AGU Spring Meeting Abstracts

**Three dimensional power spectra in the solar wind at 1AU**

Dasso, S., L.J.Milano, W.H.Matthaeus, and C.W.Smith.  
AGU Spring Meeting Abstracts

**Anisotropy of solar wind fluctuations: fast wind vs slow wind.**

Dasso, S., L.J.Milano, W.H.Matthaeus, and C.W.Smith.  
AGU Fall Meeting Abstracts

**Beam Width of Solar Electron Bursts Observed Below 1.3 keV**

de Koning, C.A., R.M.Skoug, J.T.Steinberg, and J.T.Gosling.  
AGU Fall Meeting Abstracts

**Multi-Spacecraft Observations of Energetic Heavy Ions Accelerated by  
Interplanetary Shocks Near Earth**

Desai, M.I., G.M.Mason, G.C.Ho, D.Lario, J.E.Mazur, J.R.Dwyer,  
Q.Hu, C.W.Smith, and J.C.Kasper.  
AGU Fall Meeting Abstracts

**Operational warning of interplanetary shock arrivals using energetic  
particle data from ACE: Real-time Upstream Monitoring System**

Donegan, M., J.Vandegriff, G.C.Ho, and S.J.Julia.  
AGU Fall Meeting Abstracts

**Real-time Upstream Monitoring System: Predicting interplanetary shock  
arrivals using energetic particle data from ACE**

Donegan, M.M., J.Vandegriff, G.C.Ho, and K.L.Wagstaff.  
AGU Spring Meeting Abstracts

**IMF and Ejecta Coherence Lengths During the Events of October-November 2003**

**Farrugia, C.J., H.Matsui, H.Kucharek, C.W.Smith, K.W.Ogilvie,**  
J.Kaspar, R.B.Torbert, R.P.Lepping, R.Skoug, T.Terasawa, T.Nagai,  
T.Mukai, and Y.Saito.

AGU Spring Meeting Abstracts

**Alpha Particle Heating in the Solar Wind: ACE Observations**

Gary, S.P., C.W.Smith, and R.M.Skoug.  
AGU Fall Meeting Abstracts

**Modeling Multispacecraft Observations of Flux Dropouts seen in Impulsive  
Solar Particle Events**

Giacalone, J., J.Mazur, and E.Chollet.  
AGU Fall Meeting Abstracts

**Correlated Dispersionless Modulations in Suprathermal Electron and Impulsive Energetic Ion Events in the Solar Wind**

Gosling, J.T., R.M.Skoug, D.J.McComas, and J.E.Mazur.  
AGU Spring Meeting Abstracts

**Direct Evidence for Magnetic Reconnection in the Solar Wind Near 1 AU**

Gosling, J.T., R.M.Skoug, D.J.McComas, and C.W.Smith.  
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**Magnetic Loop Topologies in the Vicinity of the Heliospheric Current Sheet**

Gosling, J.T., R.M.Skoug, J.T.Steinberg, and D.J.McComas.  
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**Effective drift velocity and initiation times of interplanetary type-III radio bursts**

Haggerty, D.K. and E.C.Roelof.  
AGU Spring Meeting Abstracts

**Dissipation Range Observations in Interplanetary Magnetic Clouds**

Hamilton, K., C.W.Smith, and R.J.Leamon.  
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**Energetic Particle Acceleration at Near-Earth by Interplanetary Shocks**

Ho, G.C., D.Lario, M.I.Desai, Q.Hu, and J.Kasper.  
AGU Fall Meeting Abstracts

**Upper Limit on  $^3\text{He}$  Fluences in Solar Energetic Particle Events**

Ho, G.C., E.C.Roelof, and G.M.Mason.  
AGU Spring Meeting Abstracts

**The Turbulent Correlation Length in the Distant Solar Wind**

Isenberg, P.A. and C.W.Smith.  
AGU Fall Meeting Abstracts

**Forecasting Interplanetary Shocks Using Energetic Particle Data**

Jen, S.J., J.Vandegriff, M.Donegan, G.C.Ho, and M.Desai.  
AGU Fall Meeting Abstracts

**Project SMART at the University of New Hampshire: Integrating Space and Environmental Sciences Studies**

Jordanova, V., B.Rock, C.Farrugia, C.Smith, H.Kucharek, P.Puhl-Quinn, B.Vasquez, J.Raeder, and J.Dorelli.  
AGU Fall Meeting Abstracts

**An Extension of the Quasi-linear Theory on Shock Acceleration to Low-energy Ions**  
Kallenbach, R., K.Bamert, R.F.Wimmer-Schweingruber, and C.W.Smith.  
AGU Fall Meeting Abstracts

**Effects in the Martian Ionosphere Caused by the Solar Cycle Variation of the EUV Flux and Solar Wind Dynamic Pressure**  
Krymskii, A.M., T.K.Breus, N.F.Ness, D.H.Crider, and D.P.Hinson.  
AGU Fall Meeting Abstracts

**Enhancements of He<sup>+</sup> at Interplanetary Disturbances: A Survey**  
Kucharek, H., E.Moebius, Y.Lu, C.Smith, B.Klecker, C.Farrugia,  
M.Popecki, A.Galvin, M.Hilchenbach, and P.Bochsler.  
AGU Fall Meeting Abstracts

**Backstreaming ion beams formed at the oblique Earth's bow shock**  
Kucharek, H., E.Moebius, M.Scholer, B.Klecker, L.M.Kistler,  
C.Mouikis, T.Horbury, and S.Bale.  
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**Correlation of Solar Wind Features Observed From Spacecraft Well-Separated in YGSE**  
Lazarus, A., J.Kasper, J.Ashmall, R.Skoug, J.Steinberg, K.Ogilvie,  
A.Szabo, C.Smith, and H.Quiang.  
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**Effects of Solar Energetic Particle Events on the Martian Surface and Atmosphere**  
Leblanc, F., D.A.Brain, J.G.Luhmann, G.T.Delory, R.A.Mewaldt, and  
C.M.Cohen.  
AGU Fall Meeting Abstracts

**Variability of the Heliospheric Magnetic Flux**  
Lepri, S.T., S.K.Antiochos, and T.H.Zurbuchen.  
AGU Fall Meeting Abstracts

**Modeling the Inner Radiation Belt Protons**  
Selesnick, R. S.; Looper, M. D.; Mewaldt, R. A.  
**AGU Fall Meeting Abstracts**

**The Isotopic Composition of Solar Energetic Particles in Large Events of Solar Cycle 23**  
Leske, R.A., C.M.Cohen, A.C.Cummings, R.A.Mewaldt, E.C.Stone,  
M.E.Wiedenbeck, and T.T.von Rosenvinge.  
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**The Relative Abundances of H, He, and Heavy Ions in Large Solar Energetic Particle Events**

Leske, R.A., C.M.Cohen, A.W.Labrador, R.A.Mewaldt, M.D.Looper,  
J.E.Mazur, R.S.Selesnick, M.I.Desai, and G.M.Mason.  
AGU Fall Meeting Abstracts

**Global Energy Partition During Superstorms**

Lu, G., A.D.Richmond, D.S.Evans, J.U.Kozyra, T.N.Woods,  
S.C.Solomon, and R.Skoug.  
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**3D Breakout: Preliminary Results**

Lynch, B.J., S.K.Antiochos, C.R.Devore, and T.H.Zurbuchen.  
AGU Fall Meeting Abstracts

**Are Inner Source Pickup Ions further Accelerated in Interplanetary Space?**

Möbius, E., H.Kucharek, M.Popecki, P.Bochsler, R.Kallenbach,  
B.Klecker, and R.Wimmer-Schweingruber.  
AGU Fall Meeting Abstracts

**CME Shock and Sheath Structures Relevant to Particle Acceleration**

Manchester, W.B., J.Kota, T.Gombosi, S.V.Igor, I.Roussev, D.de  
Zeeuw, K.Powell, G.Toth, and T.Zurbuchen.  
AGU Fall Meeting Abstracts

**Low-to-Middle Latitude Plasma Transport During Geomagnetic Storms Observed  
From Ground and Space-Borne GPS Receivers**

Mannucci, A.J., A.Komjathy, G.A.Hajj, B.A.Iijima, B.T.Tsurutani,  
L.Sparks, W.D.Gonzalez, and R.M.Skoug.  
AGU Fall Meeting Abstracts

**A mechanism of dissipation of the perpendicular turbulent cascade in the solar wind**

Markovskii, S.A., B.J.Vasquez, C.W.Smith, and J.V.Hollweg.  
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**Space Weather From Explosive Events at the Sun**

Mason, G.M..  
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**A New Evaluation of the Galactic Cosmic Ray Radiation Dose In  
Interplanetary Space**

Mewaldt, R.A., A.J.Davis, J.S.George, W.R.Binns, G.A.de Nolfo,  
M.H.Israel, R.A.Leske, E.C.Stone, T.T.von Rosenvinge, and  
M.E.Wiedenbeck.  
AGU Fall Meeting Abstracts

**The Q/M-Dependence of Spectral Breaks in the Large Solar-Particle Events of  
October 28 and 29, 2003**

Mewaldt, R.A., G.M.Mason, C.M.Cohen, M.I.Desai, A.L.Labrador,  
M.D.Looper, R.A.Leske, J.E.Mazur, E.C.Stone, T.T.von Roseninge,  
and M.E.Wiedenbeck.

AGU Spring Meeting Abstracts

**Preliminary results on the evaluation of 3D correlation functions from ACE  
and WIND simultaneous data**

Milano, L.J., W.H.Matthaeus, and C.W.Smith.

AGU Fall Meeting Abstracts

NOZOMI/ACE Multispacecraft Observations of Solar Energetic Particles

Miyasaka, H., R.A.Mewaldt, G.M.Mason, D.K.Haggerty, K.Nagata,  
J.Kikuchi, T.Doke, N.Hasebe, K.Maezawa, T.Takashima, and A.Ihara.

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**Ubiquitous Energy Dependence of Ionic Charge States - Challenge and Opportunity**

Moebius, E..

AGU Spring Meeting Abstracts

**Four-Spacecraft Observations of Delayed Energetic-Particle Events Near  
Earth**

Neugebauer, M., C.W.Smith, and J.Giacalone.

AGU Fall Meeting Abstracts

**Essentials for In Situ Space Weather Monitoring in the Future**

Posner, A., N.A.Schwadron, D.J.McComas, A.B.Galvin, and

E.C.Roelof.

AGU Spring Meeting Abstracts

**The GENESIS Solar-Wind Sample: Summary of In-Situ Spacecraft Measurements  
During the Sample Collection Period**

Reisenfeld, D.B., J.T.Steinberg, R.C.Wiens, B.L.Barraclough,

T.H.Zurbuchen, and D.S.Burnett.

AGU Fall Meeting Abstracts

**Using global MHD simulations to relate the Three-Part Structure of CMEs to  
in situ observations**

Riley, P., J.A.Linker, Z.Mikic, D.Odstroil, D.F.Webb, and

T.H.Zurbuchen.

AGU Fall Meeting Abstracts

**Implications for Near-Relativistic Solar Electron Transport from the  
Propagation Characteristics of Type-III Solar Radio Bursts**

Roelof, E.C.and D.K.Haggerty.

AGU Spring Meeting Abstracts

**Constant Energy Source for Solar Wind: Observations and Theory**

Schwadron, N.A. and D.J. McComas.

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**The Source of Short (1 hour) Beams of Near-relativistic Electrons Seen by ACE**

Simnett, G.M., E.C. Roelof, and D.K. Haggerty.

AGU Spring Meeting Abstracts

**Extremely fast solar wind observations during October-November, 2003**

Skoug, R.M., J.T. Steinberg, J.T. Gosling, D.J. McComas, C.W. Smith,

N.F. Ness, Q. Hu, and L.F. Burlaga.

AGU Spring Meeting Abstracts

**Review of Solar Wind Heating: Observations and Theory**

Smith, C.W..

AGU Fall Meeting Abstracts

**Solar Wind Heating: Critical Tests of a Turbulence Theory**

Smith, C.W., P.A. Isenberg, W.H. Matthaeus, and J.D. Richardson.

AGU Fall Meeting Abstracts

**Spatial Structure of Solar Electron Bursts: Two-Point Observations using Genesis and ACE**

Steinberg, J.T., C.A. de Koning, J.T. Gosling, R.M. Skoug, and

R.C. Wiens.

AGU Spring Meeting Abstracts

**Counterstreaming Suprathermal Electrons Within Coronal Hole Fast Flows Measured at 1 AU by ACE and Genesis**

Steinberg, J.T., J.T. Gosling, C.A. de Koning, R.M. Skoug, and

R.C. Wiens.

AGU Fall Meeting Abstracts

**Observation of the Solar Wind and Magnetosphere Interaction Near the Subsolar Point During Active Geomagnetic Periods on October 24 and 31, 2003**

Vieira, G.V., M.E. Hill, D.C. Hamilton, M.C. Collier, T.E. Moore,

J.L. Green, D.G. Mitchell, and R.M. Skoug.

AGU Fall Meeting Abstracts

**Multi-Scale Probability Distributions of Solar Wind Speed and Magnetic Field Strength Fluctuations at 1 AU Described by a Generalized Tsallis PDF**

Vinas, A.F. and L.F. Burlaga.

AGU Fall Meeting Abstracts

**Space Weather Drivers in the ACE Era**

Vogt, M., P. Puhl-Quinn, V.K. Jordanova, C.W. Smith, and C.M. Cohen.

AGU Fall Meeting Abstracts

**Energetic Particles Associated with the Interplanetary Shock of 25 September 2001**

von Rosenvinge, T., C.Cohen, A.Cummings, R.Leske, R.Mewaldt, E.Stone,  
and M.Wiedenbeck.

AGU Fall Meeting Abstracts

**Comparison between impulsive energetic electron events and  $^3\text{He}$ -rich events**

Wang, L., G.Mason, R.P.Lin, and S.Krucker.

AGU Fall Meeting Abstracts

**Energetic  $^3\text{He}$  in the Inner Heliosphere: 1997 to 2004**

Wiedenbeck, M.E., G.M.Mason, C.M.Cohen, A.C.Cummings, J.R.Dwyer,  
R.E.Gold, S.M.Krimigis, R.A.Leske, J.E.Mazur, R.A.Mewaldt,  
E.C.Stone, and T.T.von Rosenvinge.

AGU Fall Meeting Abstracts

**Variability of the Nitrogen Abundance in the Solar Wind and Implications  
for Past Solar Activity**

Wimmer-Schweingruber, R.F., P.Bochsler, P.Wurz, G.Gloeckler, J.Geiss,  
R.Kallenbach, and T.H.Zurbuchen.

AGU Fall Meeting Abstracts

**Shock Evolution During 29 - 06 November 2003 period of  
Solar-Flare-CME-Shock-Geomagnetic Storms**

Wu, C., S.Wu, M.Dryer, C.Fry, D.Berdichevsky, Z.Smith, N.Gopalswamy,  
T.Zurbuchen, C.Smith, and T.Detman.

AGU Spring Meeting Abstracts

**Fast, Hot and Furious: The October/November CMEs observed by ACE and WIND**

Zurbuchen, T.H., A.Szabo, R.Skoug, C.Smith, K.Ogilvie, A.Lazarus, and  
J.Kaspar.

AGU Spring Meeting Abstracts

**Other 2004 Meetings/Conferences**

**Stochastic Acceleration of  $^3\text{He}$  and  $^4\text{He}$  by Parallel Propagating Plasma Waves**

Petrosian, V., S.Liu, and G.Mason.

American Astronomical Society Meeting Abstracts

**Magnetic Cloud Net Cumulative Helicity During Solar Cycle 23**

Lynch, B.J., J.R.Gruesbeck, T.H.Zurbuchen, and S.K.Antiochos.

American Astronomical Society Meeting Abstracts



**The Solar Ejecta from October/November 2003**

Smith, C., R.Skoug, and T.Zurbuchen.  
APS Meeting Abstracts

**Galactic Cosmic-Ray Isotopic Abundances: Comparison with Wolf-Rayet Star Models**

Binns, W.R., M.E.Wiedenbeck, A.C.Cummings, M.H.Israel, R.A.Leske,  
R.A.Mewaldt, E.C.Stone, and T.T.von Roseninge.  
APS Meeting Abstracts

**Elemental Abundances in the Galactic Cosmic Rays with Atomic Number (Z) in the Interval 30 to 40**

Israel, M.H., L.M.Barbier, W.R.Binns, E.R.Christian, J.R.Cummings,  
G.A.de Nolfo, S.Geier, P.L.Hink, J.T.Link, R.A.Mewaldt,  
J.W.Mitchell, B.F.Rauch, S.M.Schindler, L.M.Scott, E.C.Stone,  
R.E.Streitmatter, and C.J.Waddington.  
APS Meeting Abstracts

**Direct Measurement of Cosmic-Ray Energy Loss in the Heliosphere Using Electron-Capture-Decay Isotopes**

Scott, L.M., A.J.Davis, M.E.Wiedenbeck, W.R.Binns, A.C.Cummings,  
J.S.George, M.H.Israel, R.A.Leske, R.A.Mewaldt, S.M.Niebur,  
T.T.von Roseninge, and N.E.Yanasak.  
APS Meeting Abstracts

**2003**

**ACE/RHESSI/WIND Workshop October 7-9, 2003  
Taos NM**

**Three Distinct Populations of Solar Energetic Electrons: Flare, Beam, and Type-III**

Dennis Haggerty

**Spatial Structure of Solar Electron Bursts Below 1.4 keV: Two-Point Observations using ACE and Genesis**

John T Steinberg

**Solar release and interplanetary propagation of 38-315 keV electrons**

Edmond C. Roelof

**SEP particle acceleration and propagation: recent progress from ACE**

Glenn Mason

**Onset times of heavy ions and electrons in solar energetic particle events, including correlation with CME and flare**

Richard Mewaldt

**Acceleration of Heavy Ions by Shocks at 1 AU (Contributed)**

Tycho von Rosenvinge

**Energy Dependence of the Ionic Charge State in Impulsive SEP Events**

Eberhard Moebius

**Ionic Charge States in Gradual SEP Events**

Allan W. Labrador

**Spectral Properties of Heavy Ions Accelerated by Interplanetary Shocks Near 1 AU**

Mihir I Desai

**Acceleration and Propagation of Pickup Ions in the Heliosphere**

Nathan A. Schwadron

**The Evolution of the Coronal Magnetic Field: Implications for Particle Acceleration**

Lennard A. Fisk

**ACE Observations of Highly-Fractionated Heavy-Ion Composition in the Impulsive SEP Events of August 2002**

Mark E. Wiedenbeck

**Correlation Between  $^3\text{He}$ -Enhanced Solar Energetic Particle Events and Beam-like Solar Energetic Electrons**

George C. Ho

**An Overview of Charge State Composition in SEP Events**

Mark Popecki

**Anomalous CME composition from flares?**

Thomas H Zurbuchen

**SHINE 2003, Maui, Hawaii**

**Talks**

**SEPs and Working Group 3 of SHINE**

Richard Leske

**Electron timing (from SEP observations)**

Dennis Haggerty

**Ion timing (from SEP observations)**

Christina Cohen

**Some New Clues About The Origin of Solar Wind Suprathermal Electron Dropouts**

Jack Gosling

**Elemental composition signatures for seed populations (ACE/ULEIS observations of SEPs)**

Mihir Desai

**Fe Qstates in the solar wind; evidence for ejecta (ACE/SWICS observations of solar wind)**

Sue Lepri

**Relation of Fe Q states in solar wind and SEPs in clouds (ACE/SEPICA observations of SEPs)**

Mark Popecki

**Q state observations in very energetic particles (SAMPEX observations of SEPs)**

Rick Leske

**Solar Wind 10, 2003**

**Are Solar Energetic Particles an Accelerated Sample of Solar Wind?**

Mewaldt, R.A.

**Long-Term Fluences of Heliospheric Particles**

Mewaldt, R.A.

**Cross Helicity Correlations in the Solar Wind**

Dasso, S., L. J. Milano, W. H. Matthaeus, and C. W. Smith.

**A Technique For Comparing Solar Wind Structures Observed By ACE And Ulysses**

Elliott, H. A., D. J. McComas, and P. Riley.

**Acceleration of the Solar Wind as a Result of the Reconnection of Open Magnetic Flux with Coronal Loops**

Fisk, L. A., G. Gloeckler, T. H. Zurbuchen, J. Geiss, and N. A. Schwadron.

**Ubiquitous Suprathermal Tails on the Solar Wind and Pickup Ion Distributions**

Gloeckler, G..

**Effect of CME Interactions on the Production of Solar Energetic Particles**

Gopalswamy, N., S. Yashiro, G. Michalek, M. L. Kaiser, R. A. Howard, R. Leske, T. von Rosenvinge, and D. V. Reames.

**Composition Variations during Large Solar Energetic Particle Events**

Ho, G. C., E. C. Roelof, G. M. Mason, D. Lario, R. E. Gold, J. E. Mazur, and J. R. Dwyer.

**Relative Abundance Variations of Energetic  $\text{He}^{\{+\}}/\text{He}^{\{2+\}}$  in CME Related SEP Events**

Kucharek, H., E. Moebius, W. Li, C. Farrugia, M. Popecki, A. Galvin, B. Klecker, M. Hilchenbach, and P. Bochsler.

**ACE Observations of Energetic Particles Associated with Transient Interplanetary Shocks**

Lario, D., G. C. Ho, R. B. Decker, E. C. Roelof, M. I. Desai, and C. W. Smith.

**The Coronal Isotopic Composition as Determined Using Solar Energetic Particles**

Leske, R. A., R. A. Mewaldt, C. M. S. Cohen, E. R. Christian, A. C. Cummings, P. L. Slocum, E. C. Stone, T. T. von Rosenvinge, and M. E. Wiedenbeck.

**Active-Region Sources of Solar Wind near Solar Maximum**

Liewer, P. C., M. Neugebauer, and T. Zurbuchen.

**Where do we go with Solar and Heliospheric Physics?**

Moebius, E..

**Comparison Of The Genesis Solar Wind Regime Algorithm Results With Solar Wind Composition Observed By ACE**

Reisenfeld, D. B., J. T. Steinberg, B. L. Barraclough, E. E. Dors, R. C. Wiens, M. Neugebauer, A. Reinard, and T. Zurbuchen.

**Spatial Relationship of Signatures of Interplanetary Coronal Mass Ejections**

Richardson, I. G., H. V. Cane, S. T. Lepri, T. H. Zurbuchen, and J. T. Gosling.

**Understanding the Solar Sources of In Situ Observations**

Riley, P., Z. Mikic, J. Linker, and T. H. Zurbuchen.

**Day the Solar Wind Almost Disappeared: Magnetic Field Fluctuations and Wave Refraction**

Smith, C. W., D. J. Mullan, N. F. Ness, R. M. Skoug, and J. Steinberg.

### **The Transition of Interplanetary Shocks through the Magnetosheath**

Szabo, A., C. W. Smith, and R. M. Skoug.

### **How Common is Energetic $^3\text{He}$ in the Inner Heliosphere?**

Wiedenbeck, M. E., G. M. Mason, E. R. Christian, C. M. S. Cohen, A. C. Cummings, J. R. Dwyer, R. E. Gold, S. M. Krimigis, R. A. Leske, J. E. Mazur, R. A. Mewaldt, P. L. Slocum, E. C. Stone, and T. T. von Roseninge.

### **Solar Wind Composition**

Wimmer-Schweingruber, R. F..

### **Composition of magnetic cloud plasmas during 1997 and 1998**

Wurz, P., R. F. Wimmer-Schweingruber, P. Bochsler, A. B. Galvin, J. A. Paquette, F. M. Ipavich, and G. Gloeckler.

### **The Composition of Interplanetary Coronal Mass Ejections**

Zurbuchen, T. H., L. A. Fisk, S. T. Lepri, and R. von Steiger.

### **Coronal Abundances of Rare Elements Obtained from SEP Measurements**

C.M.S. Cohen, R.A. Mewaldt, E.R. Christian, A.C. Cummings, R.A. Leske, P.L. Slocum, E.C. Stone, T.T. von Roseninge, M.E. Wiedenbeck,

### **Space Weather at 75 AU**

R, A. Mewaldt

## **28th International Cosmic Ray Conference, July 2003, Tsukuba, Japan**

### **The $^3\text{He}$ -Rich SEP Events of August 2002: Exceptional Elemental and Isotopic Composition Patterns at Energies above 10 MeV/nucleon**

M.E. Wiedenbeck, R.A. Leske, C.M.S. Cohen A.C. Cummings, R.A. Mewaldt, E.C. Stone and T.T. von Roseninge

### **The Unusual Solar Particle Events of August 2002**

R.A. Leske, M.E. Wiedenbeck, C.M.S. Cohen, R.A. Mewaldt, A.C. Cummings, E.C. Stone, and T.T. von Roseninge

### **Impulsive Flare Material: A Seed Population for Large Solar Particle Events?**

R.A. Mewaldt, C.M.S. Cohen, G.M. Mason, M.I. Desai, R.A. Leske, J.E. Mazur, E.C. Stone, T.T. von Roseninge, and M.E. Wiedenbeck

### **Onsets and Release Times in Solar Particle Events**

A.J. Tylka, C.M.S. Cohen, W.F. Dietrich, S. Krucker,  
R.E. McGuire, R.A. Mewaldt, C.K. Ng, D.V. Reames,  
and G.H. Share

**Heavy Ion and Electron Release Times in Solar Particle Events**

R.A. Mewaldt, C.M.S. Cohen, D.K. Haggerty, R.E. Gold,  
S.M. Krimigis, R.A. Leske, R.C. Ogliore, E.C. Roelof,  
E.C. Stone, T.T. von Rosenvinge and M.E. Wiedenbeck

**Strong Energy Dependence of Ionic Charge States in Impulsive Solar Events**

E. Mobius, Y. Cao, M.A. Popecki, L.M. Kistler,  
H. Kucharek, D. Morris and B. Klecker

**On The Energy Dependence of Ionic Charge States**

B. Klecker, M.A. Popecki, E. Mobius, M. I. Desai,  
G.M. Mason and R.F. Wimmer-Schweingruber

**Observation of Energy-Dependent Charge States in Solar Energetic Particle Events**

M.A. Popecki, J.E. Mazur, E. Moebius, B. Klecker,  
A. Bogdanov, G.M. Mason and L.M. Kistler

**Iron Charge State Distribution in Large Gradual Solar Energetic Particle Events**

M.A. Popecki, E. Moebius, D. Morris, B. Klecker,  
and L.M. Kistler

**Ionic Charge States of High Energy Solar Energetic Particles in Large Events**

L.S. Sollitt, E.C. Stone, R.A. Mewaldt, C.M.S. Cohen,  
R.A. Leske, M.E. Wiedenbeck and T.T. von Rosenvinge

**Modelling Energy-Dependent Fe/O Ratios Observed Above 12 MeV/nucleon**

C.M.S. Cohen, E.C. Stone, A.C. Cummings, R.A. Leske,  
R.A. Mewaldt, T.T. von Rosenvinge and M.E. Wiedenbeck

**The Solar Cycle Variability of Solar Energetic Particle Composition**

R.A. Leske, C.M.S. Cohen, A.C. Cummings, R.A. Mewaldt,  
E.C. Stone, M.E. Wiedenbeck and T.T. von Rosenvinge

**Energetic Electrons Associated with Transient Interplanetary Shocks: Evidence for Weak Interaction**

G.C. Ho, D. Lario, R.B. Decker, E.C. Roelof,  
M. Desai and C.W. Smith

**Refractory Nuclides in the Cosmic-Ray Source**

M.E. Wiedenbeck, W.R. Binns A.C. Cummings,  
A.J. Davis, G. de Nolfo, J.S. George, M. H. Israel,  
A.W. Labrador, R.A. Leske, R.A. Mewaldt,

E.C. Stone and T.T. von Rosenvinge

**Direct Evidence of Energy-Loss in Electron-Capture-Decay Secondary Isotopes in the Heliosphere**

L.M. Scott, A.J. Davis, M.E. Wiedenbeck, W.R. Binns,  
E.R. Christian, A.C. Cummings, J.S. George, P.L. Hink,  
M.H. Israel, R.A. Leske, R.A. Mewaldt, S.M. Niebur,  
E.C. Stone, T.T. von Rosenvinge and N.E. Yanasak

**New Measurements of the Li, Be, and B Isotopes as a Test of Cosmic Ray Transport Models**

G.A. de Nolfo, N.E. Yanasak, W.R. Binns, A.C. Cummings,  
A.J. Davis, J.S. George, P.L. Hink, M.H. Israel, R.A. Leske,  
R.A. Mewaldt, E.C. Stone, T.T. von Rosenvinge  
and M.E. Wiedenbeck

**Extended Energy Spectrum Measurements Of Elements With The Cosmic Ray Isotope Spectrometer (CRIS)**

A.W. Labrador, N.E. Yanasak, W.R. Binns, A.C. Cummings,  
G.A. de Nolfo, J.S. George, M.H. Israel, R.A. Leske,  
M. Lijowski, R.A. Mewaldt, E.C. Stone, T.T. von Rosenvinge,  
and M.E. Wiedenbeck

**Solar Energetic Particle Acceleration and Transport**

C.M.S. Cohen

**AGU Meetings 2003**

**Pickup ions generated near the sun during solar maximum**

Allegrini, F., N.A.Schwadron, G.Gloeckler, H.A.Elliott, D.J.McComas,  
and A.Posner.

AGU Fall Meeting Abstracts

**Proton beam instabilities upstream of a CME shock: SOHO/CELIAS/HSTOF, ACE/MAG and Geotail/MGF data**

Bamert, K., R.Kallenbach, N.F.Ness, C.W.Smith, T.Terasawa,  
M.Hilchenbach, R.F.Wimmer-Schweingruber, and B.Klecker.

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice,  
France, 6 - 11 April 2003, abstract #3088

**A Taxonomy of the Magnetosphere's Reaction to Solar-Wind Driving**

Borovsky, J.E., R.M.Skoug, and C.W.Smith.

AGU Fall Meeting Abstracts

**Induced electric field and cross helicity in solar wind fluctuations**

Breech, B., W.Matthaeus, L.Milano, and C.Smith.

AGU Fall Meeting Abstracts

**Multiscale Structure of the Heliospheric Magnetic Field Strength and Solar Wind Speed: Multifractal Structure and Distribution Functions**

Burlaga, L.F..

AGU Fall Meeting Abstracts

**Using SEP Elemental Abundance Measurements to Infer Coronal Composition**

Cohen, C.M., A.C.Cummings, R.A.Leske, R.A.Mewaldt, E.C.Stone,

T.T.von Rosenvinge, and M.E.Wiedenbeck.

AGU Fall Meeting Abstracts

**A survey of shocks and related energetic particle increases observed by instruments on ACE**

Cohen, C.M.S., G.C.Ho, R.A.Mewaldt, R.M.Skoug, C.W.Smith, and

A.Szabo.

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #2040

**Understanding energy dependent Fe/O ratios observed above 12 MeV/nucleon**

Cohen, C.M.S., E.C.Stone, A.C.Cummings, R.A.Leske, R.A.Mewaldt,

T.T.von Rosenvinge, and M.E.Wiedenbeck.

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #2039

**Statistical Analysis of Solar Electron Bursts at Energies Below 1.4 keV**

de Koning, C.A., J.T.Gosling, R.M.Skoug, and J.T.Steinberg.

AGU Fall Meeting Abstracts

**Real-time Upstream Monitoring System: Using ACE Data to Predict the Arrival of Interplanetary Shocks**

Donegan, M.M., K.L.Wagstaff, G.C.Ho, and J.Vandegriff.

AGU Fall Meeting Abstracts

**Scattering of superthermal solar wind electrons inside 5 AU**

Elliott, H., D.McComas, N.Schwadron, and E.Simpson.

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #3321

**Are Solar Electron Burst Acceleration Sites Highly Localized?**

Gosling, J.T., R.M.Skoug, J.T.Steinberg, and D.J.McComas.

AGU Fall Meeting Abstracts

**Extended Injection Histories of Near-Relativistic Solar Electrons and**



**Their Relation to SEP Ion Events**

Haggerty, D.K. and E.C. Roelof.  
AGU Fall Meeting Abstracts

**Event Fluences of Energetic  $^3\text{He}$  and  $^4\text{He}$ : Different Behavior During the Rise and the Maximum of Solar Cycle 23**

Ho, G.C., E.C. Roelof, D.K. Haggerty, and G.M. Mason.  
AGU Fall Meeting Abstracts

**Multiple Flux-Rope Magnetic Ejecta in the Solar Wind: Separated Flux Ropes**

Hu, Q., C.W. Smith, and N.F. Ness.  
AGU Fall Meeting Abstracts

**Reconstruction of multi-tube topology of magnetic ejecta at 1 AU**

Hu, Q., C.W. Smith, N.F. Ness, and R.M. Skoug.  
EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #7554

**Hydromagnetic Wave Excitation at a Heliospheric Shock**

Kallenbach, R., K. Bamert, N.F. Ness, C.W. Smith, M. Hilchenbach, and V. Izmodenov.  
AGU Fall Meeting Abstracts

**Probing diffusion parameters of suprathermal and energetic ions in the Bastille day CME event**

Kallenbach, R., K. Bamert, N.F. Ness, C.W. Smith, M. Hilchenbach, R.F. Wimmer-Schweingruber, and B. Klecker.  
EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #2478

**Suprathermal ion and solar wind ionic charge states: a comparison**

Klecker, B., M.A. Popecki, E.M. Ombriani, R.F. Wimmer-Schweingruber, A.B. Galvin, T.H. Zurbuchen, and G. Gloeckler.  
EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #9514

**Observations of interplanetary shocks from well-separated spacecraft**

Lazarus, A., J. Kasper, R. Skoug, J. Steinberg, K. Ogilvie, A. Szabo, C. Smith, and Q. Hu.  
EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #10908

**Orientations of Correlated Wind and ACE Features**

Lazarus, A.J., J. Ashmall, J.C. Kasper, R.M. Skoug, J.T. Steinberg, K.W. Ogilvie, A. Szabo, C.W. Smith, and Q. Hu.  
AGU Fall Meeting Abstracts

**Updated Measurements of the Isotopic Composition of Solar Energetic Particles**

Leske, R.A., M.E.Wiedenbeck, C.M.Cohen, A.C.Cummings, R.A.Mewaldt, E.C.Stone, and T.T.von Rosenvinge.  
AGU Fall Meeting Abstracts

**On the nature of the peculiar solar particle events of August 2002**

Leske, R.A., M.E.Wiedenbeck, R.A.Mewaldt, C.M.S.Cohen, A.C.Cummings, E.C.Stone, and T.T.von Rosenvinge.  
EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #1601

**Comparison of the Breakout Model With Flare-Loop and Ionic Composition Data**

Lynch, B.J., P.J.MacNeice, S.K.Antiochos, and T.H.Zurbuchen.  
AGU Fall Meeting Abstracts

**Penetration of interstellar hydrogen, oxygen and nitrogen atoms into the heliosphere through the solar wind-LIC interaction region**

Malama, Y.G., V.Izmodenov, G.Gloeckler, and J.Geiss.  
AGU Fall Meeting Abstracts

**Heavy ion and electron release times in large solar energetic particle events**

Mewaldt, R., C.Cohen, R.Leske, R.Ogliore, D.Haggerty, and E.Roelof.  
EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #13854

**Variable Contributions of Solar Energetic Protons, Helium, Heavy-Ions and Electrons to the Ionization of the Upper Atmosphere**

Mewaldt, R.A., C.S.Cohen, A.W.Labrador, R.A.Leske, G.M.Mason, M.L.Looper, J.E.Mazur, and E.C.Roelof.  
AGU Fall Meeting Abstracts

**The Helium Focusing Cone During the Solar Cycle: ACE/SWICS Observations**

Moise, E., T.H.Zurbuchen, K.C.Hsieh, G.Gloeckler, and L.A.Fisk.  
EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #7050

**Testing Shock Acceleration in Solar Particle Events: Composition of Suprathermal Onsets**

Posner, A., N.A.Schwadron, D.J.McComas, G.Gloeckler, and H.Kunow.  
AGU Fall Meeting Abstracts

**Association between CME/flare events and enhanced oxygen charge states**

Reinard, A., K.Dere, R.Howard, and T.Zurbuchen.

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #7190

**Correlating Solar Wind Type as Determined by Genesis with Solar Wind Composition as Observed by ACE**

Reisenfeld, D.B., B.L.Barraclough, E.E.Dors, J.T.Steinberg,  
R.C.Wiens, M.Neugebauer, and T.Zurbuchen.  
AGU Fall Meeting Abstracts

**Role of CME-associated magnetic field increases in the Solar Particle Chain**

Roelof, E.C., D.Lario, and D.K.Haggerty.

AGU Fall Meeting Abstracts

**Solar Wind Scaling Law**

Schwadron, N.A.and D.J.McComas.

AGU Fall Meeting Abstracts

**Empirically constrained MHD model of the solar corona and solar wind**

Sittler, E., L.Ofman, S.Gibson, M.Guhathakurta, J.Davila, R.Skoug,  
A.Fludra, and T.Holzer.

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #4861

**Spatial Structure of Solar Electron Bursts: Two-Point Observations using ACE and Genesis**

Steinberg, J.T., C.A.de Koning, J.T.Gosling, R.M.Skoug, and  
R.C.Wiens.

AGU Fall Meeting Abstracts

**Energetic Particles Associated with the Interplanetary Shock of 23 May 2002**

von Rosenvinge, T.T., C.M.S.Cohen, A.C.Cummings, R.A.Leske,  
R.A.Mewaldt, E.C.Stone, and M.E.Wiedenbeck.

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #7982

**Composition Signatures of Interplanetary Coronal Mass Ejections von Steiger, R.and T.H.Zurbuchen.**

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #8399

**Charge states and abundances of heavy ions as signatures of interplanetary coronal mass ejections**

von Steiger, R.and T.H.Zurbuchen.

AGU Fall Meeting Abstracts

**Forecasting space weather: Using ACE data to provide real-time predictions**

**of high-intensity energetic storm particle events**

Wagstaff, K., G.C.Ho, J.Vandegriff, and J.Plauger.

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #14542

**Exceptional elemental and isotopic composition patterns in the  $^3\text{He}$ -rich solar energetic particle events of August 2002**

Wiedenbeck, M., R.Leske, C.Cohen, A.Cummings, R.Mewaldt, E.Stone, and T.von Rosenvinge.

EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #3304

**Elemental and Isotopic Composition in Impulsive Solar Energetic Particle Events: New Results from ACE**

Wiedenbeck, M.E., R.A.Leske, C.M.Cohen, A.C.Cummings, R.A.Mewaldt, E.C.Stone, and T.T.von Rosenvinge.

AGU Fall Meeting Abstracts

**Survey of  $^3\text{He}$  Abundances in Large, Gradual Solar Particle Events: 1997-2002**

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