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General Information
Chapman Conference on Magnetospheric Current Systems
Kona Surf Resort
Kona, Hawaii
January 11-15, 1999
(Monday through Friday)

- Opening Reception and Student Session
 - Conveners
 - Program Committee
 - Conference Scope
 - Discussion Topics
 - Program
 - Abstract Submissions
 - Registration and Events Information
 - Hotel Accommodations and Travel Information
 - Travel Support
 - Important Dates
 - For More Information
-

Opening Reception and Student Session

Opening Reception - January 10, 1999
Student Session - January 10, 1999

Conveners

Ryo-ichi Fujii, Solar-Terrestrial Environmental Lab., Nagoya University, Nagoya, Japan and Shin-ichi Ohtani, Johns Hopkins University, Applied Physics Lab., Laurel, Maryland

Program Committee

- **S.W.H. Cowley**, Leicester University, UK
 - **E. Friis-Christensen**, Danish Meteorological Institute, Denmark
 - **R.A. Greenwald**, JHU/APL, USA
 - **G. Haerendel**, Max-Planck Institute, Germany
 - **Y. Kamide**, Nagoya University, Japan
 - **J.R. Kan**, University of Alaska, USA
 - **J.G. Lyon**, Dartmouth College, USA
 - **R.L. Lysak**, University of Minnesota, USA
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 - **T. Mukai**, ISAS, Japan
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 - **G. Rostoker**, University of Alberta, Canada
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 - **G.L. Siscoe**, Boston University, USA
 - **J.A. Slavin**, NSAS/GSFC, USA
 - **N.A. Tsyganenko**, NASA/GSFC, USA
 - **R.J. Walker**, UCLA, USA
 - **R.A. Wolf**, Rive University, USA
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Conference Scope

The goal of this conference is to address recent achievements of observational, computational,

theoretical, and modeling studies, and to foster communication among people working with different approaches. Electric current systems play an important role in the energetics of the magnetosphere. This conference will target outstanding issues related to magnetospheric current systems, placing its emphasis on interregional processes and driving mechanisms of current systems.

Discussion Topics

- Global Configuration of Magnetospheric Current Systems
 - Driving Mechanisms of Magnetospheric Current Systems
 - Magnetospheric Magnetic Field and Current Models
 - Distribution and Dynamics of Ionospheric Currents
 - Magnetosphere-ionosphere Coupling Processes
 - Current Systems of Planetary Magnetospheres
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Program

The Preliminary Program is now available online.

Abstract Submission Information

General Information

ABSTRACT DEADLINE: September 30, 1998

ABSTRACT SUBMISSION BY MAIL

A camera-ready original and two copies of all abstracts must be submitted in standard AGU abstract

format to the address below.

The abstract page is divided into two parts: the submittal information and the abstract itself. Please follow the instructions for both carefully.

Do not exceed the maximum abstract dimensions: standard, 11.8 cm wide x 18 cm long; extended, 11.8 cm wide x 28 cm

long. Abstract length is measured from the top line of the title to the last line of the abstract text. An extended abstract must be submitted on legal-size paper (8.5" x 14"). Abstracts exceeding the 11.8 cm width requirement will be returned to you. Abstracts exceeding the 28 cm length limit will be cut off to conform to the appropriate size.

Abstracts are photocopied exactly as they are received, with approximately a 40% reduction in size, for printing in the meeting program that contains all abstracts accepted for the meeting. Therefore copy must be of letter-quality type, and you must use at least 12-pitch type or 11-point font size, or your abstract may not be readable.

Proofread your abstract carefully prior to submission. AGU staff cannot make any changes or corrections to abstracts.

Abstracts received are considered final copy.

Do not send copies by fax or telecopier. Please mail one original and two copies for delivery by **September 30, 1998**, to

Chapman Conference on Magnetospheric Current Systems
American Geophysical Union
2000 Florida Ave., N.W.
Washington, DC 20009 USA

Submittal Information: Numbered sections below refer to the items required in the submittal information area of the abstract. Submittal information must be typed to the right of the abstract copy. Please complete each item.

1. Title of Meeting (Chapman Conference on Magnetospheric Current Systems)
2. Indicate INVITED, TUTORIAL, or POSTER.
3. a) Corresponding address: Give name, affiliation, and mailing address of the author to whom all correspondence regarding this abstract should be sent.
b) Corresponding author's telephone number.
c) Corresponding author's fax number
d) Corresponding author's E-mail address.
4. Indicate whether the first author is a student.

Preparation of Abstract Copy: Abstract copy must be located on the left side of an 8.5" x 11" page (8.5" x 14" for extended abstracts). Allow for a left margin of 0.5 cm and a top margin of 4 cm. The width of the abstract may not exceed 11.8 cm. Use a minimum 12-pitch type or 11-point font size. A complete abstract must include:

TITLE: The title of the abstract should be in uppercase and lowercase bold type, capitalizing the first

letter of all words of four letters or more. Indent second line of title two spaces if it runs over. Leave one blank line after title.

AUTHOR BLOCK: Type names of authors (no punctuation) and addresses in uppercase and lowercase letters. Also include telephone and fax numbers and e-mail addresses. Underline the name of the author who will present the paper. Indent the second and subsequent lines two spaces. Separate author information with a semicolon. Leave one blank line after author block.

ABSTRACT: Leave one blank line between paragraphs. Neatly drawn symbols, Greek letters, or other camera reproducible copy are acceptable, but avoid using in the title if at all possible. Mount figures with clear glue or rubber cement; do not use adhesive tape.

E-Mail

Compose your abstract on your E-mail software exactly as you would a normal message, using a **MAXIMUM** of 75 standard ASCII characters per line. Re-set your margins, if necessary, so that the text wraps from line to line, to avoid the insertion of hard returns. Follow the instructions below. A sample E-MAIL abstract is provided at the end.

1) **TITLE** - The title of the abstract should be composed in a standard title format, capitalizing the first letter of all words of four or more letters. Insert one blank line after title.

2) **AUTHOR BLOCK**- The author block should contain the name of a presenting author that should be enclosed in brackets and asterisks, like so: [*I M First*]. If there is no presenting author, then input [*!*] at the beginning of the author block. Input your author block by typing the author's name, then putting their address, phone, fax, and e-mail information in parentheses, (). Do not put each author on a separate line, but rather, separate each author's information with a semi-colon (;). Leave one blank line after the author block.

3) **ABSTRACT TEXT** - Special symbols or graphics should not be used in composing the abstract. Leave one blank line between paragraphs and after the body.

4) **SUBMITTAL INFORMATION** - This section is to record information about which meeting the abstract is being submitted to and to obtain contact information. Please provide the following:

1. Title of meeting (Chapman Conference on Magnetospheric Current Systems) (**VERY IMPORTANT!**)
2. Indicate **INVITED**, **TUTORIAL**, or **POSTER**.
- 3a. Corresponding address: Give name, affiliation, and mailing address of the author to whom all correspondence regarding this abstract should be sent.
- 3b. Corresponding author's telephone number.
- 3c. Corresponding author's fax number.
- 3d. Corresponding author's E-mail address.
4. Indicate whether the first author is a student.

5) SUBMIT YOUR ABSTRACT - Send the abstract to the following Internet address:

dhall@kosmos.agu.org

6) CONFIRMATIONS - Confirmations of received abstracts will be sent via electronic mail within one business day of submission. If you have not received confirmation, please call the AGU at +1-202-462-6900, or fax: +1-202-328-0566.

SAMPLE E-MAIL ABSTRACT SUBMISSION:

Remote Sensing of Alpine Snow Properties: A Review of Techniques and Accomplishments Using the Visible Wavelengths Through the Microwave

[*J S Smith*] (Department of Geology, University of California, Santa Barbara, CA 93106-3060; ph. 805-893-2308; fax 805-893-2578; e-mail: imfirst@Eos.ucsb.edu); A C Cohen (Hydrology Department, Watertown University, Watertown, MA 02172; ph. 413-789-1234; fax 413-789-1256; e-mail: ursecond@ocean.hydro.edu)

Topography causes wide variations in the properties of alpine snow within small areas, and a knowledge of the spatial variation of many properties is essential for the application of distributed hydrologic models and for establishing the surface boundary condition for regional climate models. However, the topography affects the electromagnetic remote sensing signal by shadowing some terrain and by modifying the angles of incidence, emission, and reflection of the signal, and our knowledge of the elevation model is usually not precise enough to allow a priori calculation of the geometric relationships between the surface, sensor, and the Sun. Hence remote sensing algorithms must be robust to such uncertainties, except in areas where topographic knowledge is especially good.

The most elementary snow property is the presence or absence of a snow cover, and snow mapping -- discrimination of snow from other types of surfaces and from clouds -- is best accomplished with a combination of visible and near-infrared wavelengths.

1. Chapman Conference on Magnetospheric Current Systems
2. Invited
3. (a) J S Smith
Department of Geology
University of California
Santa Barbara, CA 93106-3060
(b) 805-893-2309
(c) 805-893-2578
(d) imfirst@crseo.ucsb.edu
4. No

If you have questions, please contact Dazzerine L. Hall, dhall@kosmos.agu.org, +1-202-939-3208.

Registration and Events Information

Information on Accommodations, Travel Services, and Airport and Local Transportation are available on the Registration and Events Information page.

Everyone attending this conference or giving a presentation must register and pay the registration fee. Print the registration form and mail or fax to AGU with payment by **December 18, 1998**. The registration fee covers the cost of the program with abstracts, admission to all scientific sessions, refreshment breaks, the opening reception, and conference banquet. Reception and banquet tickets must be purchased for guests of conference attendees, if your guest plans to participate in these events. Guest tickets must be purchased in advance of the conference. A guest is considered an individual who is not participating in the scientific sessions. Conference Fees: (Note: There are no one-day fees for Chapman Conferences). **Everyone must preregister for the conference.**

Registration

Scientists \$245.00
Students \$140.00

Tickets for Guests

Opening Reception \$20.00
Banquet \$50.00

SOCIAL EVENTS:

Sunday, January 10
6:00-7:30 P.M.
Welcoming Reception

Thursday, January 14
7:00-9:30 P.M.
Conference Banquet

CONFERENCE FORMAT: The program format will be provided in the preliminary program which should be available no later than November 26, 1998. This program will be e-mailed to all who submitted abstracts and will be posted on the AGU Web Site. To find this information go to <http://www.agu.org>, select Meetings from the sidebar, select Specialized Meetings and Conferences, then select Chapman Conferences. The conference on Magnetospheric Current Systems appears at the top of the list.

Hotel Accommodations and Travel Information

Click here for information on hotel accommodations, travel Services, and airport and local transportation.

Travel Support

Funding will be available to provide partial support for a limited number of meeting attendees. **Invited speakers, students, and postdoctoral fellows will receive priority.** Application forms for travel support can be obtained from the AGU Meetings Department at the address listed below. The deadline for receipt of travel applications is September 30, 1998.

Important Dates

Hotel Accommodation Deadline Date: December 10, 1998

Preregistration Deadline: December 18, 1998

1999 Magnetospheric Current Systems: January 11-15, 1999

For More Information

The preliminary program for the conference will be available around November 26, 1998. Those not submitting abstracts who wish to be placed on the mailing list, please contact:

AGU Meetings Department

Magnetospheric Current Conference
2000 Florida Ave., NW
Washington, DC 20009 USA
Phone: +1-202-462-6900
Fax: +1-202-328-0566
E-mail: meetinginfo@kosmos.agu.org

[▲Go to the top of the page](#)

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