Special Issue:
Solar System Magnetosheaths
A special issue in honor of John Spreiter.
Guest Editors: C.T. Russell and Z. Kaymaz

PLANETARY and
SPACE SCIENCE
Special Issue: SOLAR SYSTEM MAGNETOSHEATHS
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CONTENTS

Russell, C.T., Kaynaz, Z.
Feynman, J.
Stahara, S.S.
Siscoe, G.
Song, P., Russell, C.T.
Pudovkin, M.I., Zaitseva, S.A., Lebedeva, V.V., Samsonov, A.A., Besser, B.P., Meister, C.-V., Baumgärtlin, W.
Richardson, J.D.
Samsonov, A.A., Meister, C.-V.
Russell, C.T., Mulligan, T.
Baranov, V.B.
Petrie, S.M.
Shue, J.-H., Song, P.

Foreword 413
The good old days: John Spreiter in the 1960s 417
Adventures in the magnetosheath: two decades of modeling and planetary applications of the Spreiter magnetosheath model 421
Footnotes to Spreiter 443
Flow in the magnetosheath: the legacy of John Spreiter 447
MHD properties of magnetosheath flow 461
MHD-modelling of the magnetosheath 473
The Martian magnetosheath: how Venus-like? 489
The magnetosheaths of the outer planets 503
Anisotropic MHD model for the magnetosheath of Saturn 519
On the magnetosheath thicknesses of interplanetary coronal mass ejections 527
The heliosheath as a special case of stellassheaths and the hydrogen wall as a signature of the heliosheath 535
The location of the Earth's bow shock 541
The location and shape of the magnetopause 549

PERGAMON
Volume 50 Number 5–6 April–May 2002

Characteristics of magnetosheath plasma in the vicinity of the high-altitude cusp 559

Low-frequency variations of the ion flux in the magnetosheath 567

Global hybrid simulation of hot flow anomalies near the bow shock and in the magnetosheath 577

The evolution of mirror mode fluctuations in the terrestrial magnetosheath 593

Multispacecraft measurements of plasma and magnetic field variations in the magnetosheath: Comparison with Spreiter models and motion of the structures 601

A Waién test of low-frequency MHD waves in the magnetosheath observed by Geotail 613

Temporal variations in the magnetosheath: Comparison between MHD calculations and observations for one event on September 17, 1978 619

Prediction of Alfvénic turbulence near the magnetospheric sash 627

Cosmic ray intensity variation during a CME 633

Energetic ions observed by Ulysses in the Jovian magnetosheath 637
J.R. Speerle left a tremendous scientific legacy. He immediately tackled and solved the basic problem in space physics, the nonlinear aeonospheric interaction of the solar wind with the very compressible Earth's magnetosphere. His solution of the properties of the plasma, flux and magnetic field in the region called the magnetosheath is still the yardstick by which we judge both observations and new models. 35 years after his pioneering work John Speerle also was a role model of how to conduct oneself as a scientist, how to manage a scientific research group and how to be a most helpful colleague. The expression "a gentleman and a scholar" is a long-standing tribute to the most outstanding teachers of our field and the most appropriate for John Speerle. He was in every way a most gentle man and a most accomplished scholar. The field of space physics has been much enriched to have him as one of its major practitioners.

The symposium upon which this special issue of Planetary and Space Science is based was intended from the beginning to commemorate John Speerle's many contributions to the field. The symposium was held in Side, Antalya, Turkey from September 4 to 8, 2000 and was titled Interplanetary Magnetosphere Studies. It was hoped that John Speerle would attend the meeting in person but he passed away as the symposium was being planned. We are most appreciative of his daughter Christine Speerle's willingness to attend the conference, to act as a liaison with the Speerle family, to provide photographs of John Speerle for publication, and to take many excellent photographs of the participants.

The special issue begins with four papers by those who knew John best. Two of them, Jean Feynman (Hiroshima when in his employ) and Steve Shibata, worked directly with John on a "daily" basis for several years. Jean in the early days and Steve in the later years. The next several papers cover recent models of the Earth's magnetosheath and then our understanding of planetary magnetospheres.
magnetosheaths of interplanetary coronal mass ejections and the heliosheath in front of the heliosphere. The following papers treat the boundaries of the magnetosheath, the bow shock and magnetopause. Then come a series of papers that discuss interactions with the magnetosphere near the cusp, and near the low-latitude magnetopause as well as the waves and fluctuations in the magnetosheath. The volume ends with the treatment of very energetic particles.

Last but not least we would like to thank Anne McGlynn at UCLA, who handled interactions with the referees, who performed the copy editing and submitted the manuscript to the publisher. We would also like to thank Istanbul Technical University who assisted with the organization of the conference on which this special issue is based.

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