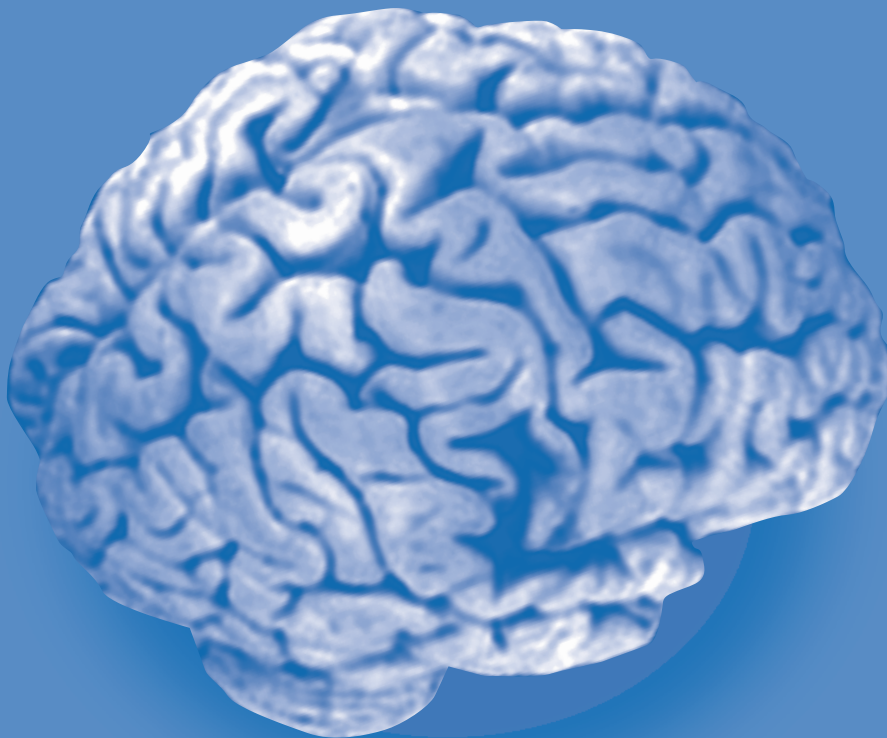


JINS

**JOURNAL OF THE INTERNATIONAL
NEUROPSYCHOLOGICAL SOCIETY**



Volume 15, Number 1

January 2009

ISSN 1355-6177

EDITOR-IN-CHIEF

Kathleen Y. Haaland

FOUNDING EDITOR

Igor Grant

ASSOCIATE EDITORS

Gregory G. Brown

Thomas A. Hammeke

Jennifer Manly

Skye McDonald

Stephen E. Nadeau

Yaakov Stern

H. Gerry Taylor

DEPARTMENTS

Critical Reviews/Dialogues

Bruce Crosson

Symposia

Mieke Verfaellie

Book Reviews

Ida Sue Baron

Official Publication



CAMBRIDGE

Journal of the International Neuropsychological Society

EDITOR-IN-CHIEF

Kathleen Y. Haaland
 NM VA Healthcare System
 University of New Mexico

FOUNDING EDITOR

Igor Grant
 University of California
 San Diego

ASSOCIATE EDITORS

Gregory G. Brown
 VA San Diego Healthcare System
 University of California, San Diego

Thomas A. Hammel
 Medical College of Wisconsin

Jennifer J. Manly
 Taub Institute for Research
 Columbia University

Skye McDonald
 University of New South Wales
 Sydney, Australia

Stephen E. Nadeau
 Gainesville VA Medical Center
 University of Florida

Yaakov Stern
 G.H. Sergievsky Center
 Columbia University

H. Gerry Taylor
 Case Western Reserve University

DEPARTMENT EDITORS**Critical Reviews/Dialogues**

Bruce Crosson
 Gainesville VA Medical Center
 University of Florida

Symposia

Mieke Verfaellie
 VA Boston Healthcare System

Book Reviews

Ida Sue Baron
 Independent Practice
 Potomac, Maryland

Editorial Assistant

Gabrielle Mallory
 NM VA Healthcare System
 University of New Mexico

EDITORIAL BOARD

John Adair
 NM VA Healthcare System
 University of New Mexico

Vicki Anderson
 Royal Children's Hospital

Peter A. Arnett
 Pennsylvania State University

Marcia Barnes
 Univ. of Texas-Houston

William B. Barr
 New York University
 School of Medicine

Sue R. Beers
 University of Pittsburgh
 School of Medicine

Linas A. Biliuskauskas
 VA Ann Arbor Healthcare System
 University of Michigan

Julie A. Bobholz
 Medical College of Wisconsin

Kyle Boone
 Harbor-UCLA Medical Center

Robert A. Bornstein
 Ohio State University

Meryl A. Butters
 University of Pittsburgh
 School of Medicine

Agnes S. Chan
 The Chinese University
 of Hong Kong

Mariana Cherner
 University of California
 San Diego

Ronald A. Cohen
 Brown University

Munro C. Cullum
 University of Texas
 Southwestern Medical Center

Dean Delis
 University of California
 San Diego

Adele Diamond
 UBC Children's Hospital, Canada

Sureyya Dikmen
 University of Washington

Jacobus Donders
 Mary Free Bed Hospital

Philip S. Fastenau
 Indiana University

Josette G. Harris
 University of Colorado
 School of Medicine

Keith A. Hawkins
 Yale University
 School of Medicine

Robert Heaton
 University of California
 San Diego

Kenneth Heilman
 University of Florida
 College of Medicine

Ramona O. Hopkins
 Brigham Young University

Diane B. Howieson
 Oregon Health & Science University

Mary H. Kosmidis
 Aristotle University of
 Thessaloniki, Greece

Joel Kramer
 University of California
 San Francisco

John Langfitt
 University of Rochester

Glenn J. Larrabee
 Independent Practice
 Sarasota, Florida

Bonnie Levin
 University of Miami
 School of Medicine

Eileen M. Martin
 University of Illinois

Andrew Mayer
 University of New Mexico

William Milberg
 VA Boston Healthcare System
 Harvard Medical School

Wiley Mittenberg
 Nova Southeastern University

Feggy Ostrosky-Solis
 National University of Mexico

Andrew A.C. Papanicolaou
 University of Texas, Medical
 School

Jennie Ponsford
 Monash University
 Australia

Joseph R. Sadek
 NM VA Healthcare System
 University of New Mexico

David J. Schretlen
 Johns Hopkins University
 School of Medicine

Paula K. Shear
 University of Cincinnati

Glenn E. Smith
 Mayo Clinic
 College of Medicine

Julie Stout
 Indiana University

Esther H. Strauss
 University of Victoria, Canada

Yana Suchy
 University of Utah

Edith V. Sullivan
 Stanford University
 School of Medicine

Daniel Tranel
 University of Iowa Hospitals and
 Clinics

Alexander I. Tröster
 University of North Carolina

Holly A. Tuokko
 University of Victoria

Frederick W. Unverzagt
 Indiana University
 School of Medicine

Jennifer J. Vasterling
 Tulane University
 School of Medicine

Kathleen A. Welsh-Bohmer
 Duke University Medical Center

Keith Owen Yeates
 Ohio State University

Aims and Scope: The *Journal of the International Neuropsychological Society* welcomes original, creative, high quality research papers covering all areas of neuropsychology. The focus of articles may be primarily experimental, more applied or clinical. Contributions will broadly reflect the interest of all areas of neuropsychology, including but not limited to: development of cognitive processes, brain-behavior relationships, adult neuropsychology, child neuropsychology, developmental neuropsychology, disorders of speech and language, and the interfaces of neuropsychology with related areas such as behavioral neurology, neuropsychiatry, neuroimaging, and electrophysiology. Book Reviews will also be published.

Editorial Office: Kathleen Y. Haaland, Ph.D., Editor-in-Chief, *Journal of the International Neuropsychological Society*, Veterans Administration Research Scientist, New Mexico VA Healthcare System, University of New Mexico, 1501 San Pedro Drive SE (151), Albuquerque, NM 87108. E-mail: jins@unm.edu; Telephone: (505) 256-2898; Fax: (505) 256-5498.

Publishing, Advertising, Subscription Offices, and Indexing: Cambridge University Press, 32 Avenue of the Americas, New York, NY 10013-2473. Telephone: (212) 337-5000; Fax (212) 337-5959. Outside the USA, Canada, and Mexico: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, England (Telephone: 144(0) 1223 312-393; Fax: 144(0)1223 315-052. For advertising rates and data, contact the Journals Advertising Coordinator at the appropriate Cambridge University Press office. The *Journal of the International Neuropsychological Society* is covered by the major abstracting and indexing services, including Index Medicus, ISI Current Contents/Clinical Medicine, PubMed, Science Citation Index, SciSearch (also known as the Science Citation Index-expanded), Research Alert, the Neuroscience Citation Index, and PsycInfo.

Books for Review: Ida Sue Baron, Ph.D. ABPP, 10116 Weatherwood Ct., Potomac, MD 20854.

Subscription Information: Published six times a year: January, March, May, July, September, and November. Annual institutional print and electronic subscription rates: US \$678.00 in the USA, Canada, and Mexico; UK £367.00 + VAT elsewhere. Institutional electronic rates only: US \$559.00 in the USA, Canada, and Mexico; UK £302.00 + VAT elsewhere. Institutional print rates only: US \$610.00 in the USA, Canada, and Mexico; UK £330.00 + VAT elsewhere. Individual print rates only: US \$222.00 in the USA, Canada, and Mexico; UK £120.00 + VAT elsewhere. Single part rates: US \$112.00 in the USA, Canada, and Mexico; UK £60.00 + VAT elsewhere. Prices include surface postage and insurance.

Member Subscription: The *Journal of the International Neuropsychological Society* is an official publication of The International Neuropsychological Society. Members of the Society automatically receive the *Journal of the International Neuropsychological Society* as part of their annual membership dues. For further information on membership, please visit the **INS** website <http://www.the-ins.org>. **INS** office contact: Robert A. Bornstein, Ph.D., Executive Secretary, International Neuropsychological Society, Suite 625, 700 Ackerman Road, Columbus, OH 43202. E-mail: ins@osu.edu; Telephone: (614) 263-4200; Fax: (614) 263-4366.

Information on Journal of the International Neuropsychological Society and all other Cambridge journals is available via <http://www.cambridge.org/> in North America and in the UK. Full text for this journal can be found at <http://journals.cambridge.org/>

Copyright © 2009 The International Neuropsychological Society

All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopying or otherwise, without permission in writing from Cambridge University Press, except when permission is obtained through a bona fide copyright clearinghouse, such as the Copyright Clearance Center (USA) or the Copyright Licensing Agency (UK). For further information please visit <http://us.cambridge.org/information/rights/> or <http://www.cambridge.org/uk/information/rights/>. The CCC Item-Fee Code for this publication is 1355-6177/ \$25.00. Specific written permission must be obtained for all other copying. **Photocopying for Classroom Use:** Permission to reproduce parts of this publication for course anthologies may be obtained directly from Cambridge University Press or through duly authorized services such as the Academic Permissions Service of the CCC, 222 Rosewood Drive, Danvers, MA 01923 and the Copyright Permissions Service of the National Association of College Stores, or through any photoduplication service that properly secures permission from Cambridge or the CCC.

Periodicals postage paid at New York, NY, and additional mailing offices. Return Postage Guaranteed. **Postmaster:** Send address changes in the USA and Canada to: *Journal of the International Neuropsychological Society*, Cambridge University Press, Journals Fulfillment Dept., 100 Brook Hill Drive, West Nyack, NY 10994-2133.

Printed in the United States of America.

This publication is printed on acid-free paper.