Volume 18, Number 2 March 2012 ISSN 1355-6177

JOURNAL OF THE INTERNATIONAL NEUROPSYCHOLOGICAL SOCIETY



EDITOR-IN-CHIEF

Kathleen Y. Haaland

FOUNDING EDITOR

Igor Grant

ASSOCIATE EDITORS

Mark W. Bondi

Thomas A. Hammeke

Jennifer Manly

Skye McDonald

Stephen E. Nadeau

Yaakov Stern

Keith Owen Yeates

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

FOUNDING EDITOR

Igor Grant University of California San Diego

ASSOCIATE EDITORS

Mark W. Bondi VA San Diego Healthcare System Univ. of Calif., San Diego

Thomas A. Hammeke Zablocki VA Medical Center Medical College of Wisconsin

Jennifer J. Manly Taub Institute for Research Columbia University

Skye McDonald University of New South Wales Sydney, Austrailia

Stephen E. Nadeau Gainesville VA Medical Center University of Florida

Yaakov Stern G.H. Sergievsky Center Columbia University

Keith Owen Yeates Nationwide Children's Hospital Ohio State University

DEPARTMENT EDITORS

Critical Reviews/Dialogues

Bruce Crosson Gainesville VA Medical Center University of Florida

Symposia

Mieke Verfaellie VA Boston Healthcare System

Pools Davious

Ida Sue Baron
Independent Practice
Potomac, Maryland

Editorial Assistant

Donna Epler NM VA Healthcare System

EDITORIAL BOARD

Peter Anderson

Murdoch Childrens Research Institute
University of Melbourne

Vicki Anderson Royal Children's Hospital

Peter A. Arnett
Pennsylvania State University

Marcia Barnes

University of Texas-Houston

Heather G. Belanger Tampa VA Hospital University of South Florida

Robert A. Bornstein
Ohio State University

Adam M. Brickman Taub Institute for Research Columbia University

Michelle C. Carlson

Johns Hopkins Bloomberg School

of Public Health

Cathy Catroppa

Murdoch Childrens Research Institute Royal Children's Hospital University of Melbourne

Agnes S. Chan

The Chinese University of

Hong Kong

Anjan Chatterjee
University of Pennsylvania

Cynthia R. Cimino
University of South Florida

H. Branch Coslett
University of Pennsylvania
Hospital of the University of
Pennsylvania

Sureyya Dikmen
University of Washington

Jacobus Donders Mary Free Bed Hospital

Leslie K. Fellows

McGill University

Christopher Filley

University of Colorado School of Medicine

Raul Gonzalez University of Illinois

Benjamin M. Hampstead Atlanta VA Medical Center Emory University

Erik Hessen

Akershus University Hospital Oslo, Norway

Amy Jak

VA San Diego Healthcare System University of California San Diego

Sterling Johnson

Wm. S. Middleton Memorial Veterans Hospital University of Wisconsin-Madison

Mary H. Kosmidis
Aristotle University of Thessaloniki,

oel Kramer
University of California,

San Francisco
Glenn J. Larrabee

Independent Practice Sarasota, Florida David J. Libon Drexel University

College of Medicine
John A. Lucas
Mayo Clinic

College of Medicine
E. Mark Mahone

Kennedy Krieger Institute Johns Hopkins University School of Medicine

Andrew Mayer *University of New Mexico* William Milberg

VA Boston Healthcare System Harvard Medical School Feggy Ostrosky-Solis

National University of Mexico Jennie Ponsford

ennie Ponsford

Monash University, Australia

Catherine C. Price University of Florida

Christopher Randolph

Loyola University Medical Center

Marianne Regard
Private Practice
University of Zurich, Switzerland

Jamie Reilly University of Florida

Monica Rivera Mindt Fordham University Mount Sinai School of Medicine

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

David P. Salmon University of California San Diego

Paula K. Shear University of Cincinnati

Elisabeth M.S. Sherman Alberta Children's Hospital University of Calgary

Julie S. Snowden University of Manchester, United Kingdom

Nikki Horne Stricker VA Boston Healthcare System Boston University School of Medicine

Yana Suchy
University of Utah
Robyn Tate

University of Sydney Sydney Medical School Nancy R. Temkin

University of Washington
Alexander I. Tröster

University of North Carolina

Jennifer J. Vasterling VA Boston Healthcare System Boston University School of Medicine Harvard Medical School

John L. Woodard
Wayne 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) 337-59059. 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 \$799.00 in the USA, Canada, and Mexico; UK £441.00 + VAT elsewhere. Institutional electronic rates only: US \$615.00 in the USA, Canada, and Mexico; UK £342.00 + VAT elsewhere. Institutional print rates only: US \$718.00 in the USA, Canada, and Mexico; UK £399.00 + VAT elsewhere. Individual print rates only: US \$261.00 in the USA, Canada, and Mexico; UK £145.00 + VAT elsewhere. Single part rates: US \$131.00 in the USA, Canada, and Mexico; UK £73.00 + VAT elsewhere. Prices include surface postage and incurrence.

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 © 2012 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 1355-6177/12 \$25.00. Specific written permission must be obtained for all other copyring. **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.