

From the Editors

The editors would like to welcome you to the first edition of *The Journal of the Deep Foundations Institute*. This publication is a milestone in DFI's ongoing effort to fulfill its mission as an information resource for design and construction of foundations and excavations. The journal will focus on subjects that are directly relevant to practice and thus will provide a bridge between academia doing applied research, practicing professionals, and the construction industry. The role of *The Journal of the Deep Foundations Institute* is detailed in the mission statement of the journal (see below). Note that this mission statement includes a special interest to integrate and maintain a diverse range of subjects and to incorporate projects from the international community. Reports on case histories and failures will be particularly invaluable in advancing the practice through lessons from real world experiences.

Participation in the journal is open to everyone in the field of interest; however, it is clear that the success of this publication depends on you, the reader of the journal, to contribute by writing articles and sharing your experiences with your peers. Practitioners are continuously looking for improved ways to solve problems, to implement advances in technology, and to enhance reliability and cost-effectiveness. *The Journal of the Deep Foundations Institute* will provide a means to improve our industry, if we all participate in an open and professional manner in sharing our experiences and lessons learned. As the editors, our promise is to make the review process as painless and efficient as possible while maintaining the high standards of an international technical journal.

Papers presented in this first edition of the journal cover a wide range of interests, including the challenges for design and construction of the Sutong Bridge foundations in China, rapid lateral load testing of deep foundations in the USA, deep diaphragm wall activities at RandstadRail project in the Netherlands, ground movement issues related to deep foundations reported by Harry Poulos from Australia, and design of drilled shafts supporting sound walls in the USA.

The editors would like to acknowledge Theresa Rappaport, the executive director of DFI, for her enormous dedication and tireless efforts in making this publication a reality. Appreciation is extended to the DFI members who supported the inaugural issue of the journal.

We look forward to the success of *The Journal of the Deep Foundations Institute* as a valuable resource to our industry for many years to come. Comments, suggestions, and submissions are welcome and may be submitted via the DFI website at www.dfi.org.

Editors

Ali Porbaha, California State University, Sacramento, CA

Dan Brown, Auburn University, Auburn, AL; Dan Brown & Associates, Sequatchie, TN

Zia Zafir, Kleinfelder, Sacramento, CA



The Journal of the Deep Foundations Institute publishes practice-oriented, high quality papers related to the broad area of "Deep Foundations Engineering". Papers are welcome on topics of interest to the geo-professional community related to, all systems designed and constructed for the support of heavy structures and excavations, but not limited to, different piling systems, drilled shafts, ground modification geosystems, soil nailing and anchors. Authors are also encouraged to submit papers on new and emerging topics related to innovative construction technologies, marine foundations, innovative retaining systems, cutoff wall systems, and seismic retrofit. Case histories, state of the practice reviews, and innovative applications are particularly welcomed and encouraged.

Journal Editors

Ali Porbaha, Ph.D., P.E.
California State University
Sacramento, CA USA

Dan A. Brown, Ph.D.
Auburn University
Auburn, AL, USA

Zia Zafir, Ph.D., P.E.
Kleinfelder
Sacramento, CA, USA

Published By

Deep Foundations Institute

Copyright © 2007 Deep Foundations Institute. All rights reserved. Written permission must be obtained from DFI to reprint journal contents, in whole or in part.

Contact:

DFI Headquarters
326 Lafayette Avenue
Hawthorne, NJ 07506
dfihq@dfi.org
www.dfi.org

DFI, its directors and officers, and journal editors assume no responsibility for the statements expressed by the journal's authors. International Standard Serial Number (ISSN): 1937-5247

2007 DFI Board of Trustees

President:

Seth L. Pearlman, P.E.
DGI-Menard, Inc.
Bridgeville, PA, USA

Vice President:

Rudolph P. Frizzi, P.E.
Langan Engineering & Environmental Services
Elmwood Park, NJ, USA

Secretary:

Patrick Bermingham
Birmingham Foundation Solutions
Hamilton, ON, Canada

Treasurer:

James A. Morrison
Kiewit Construction Group Inc.
Omaha, NE, USA

Immediate Past President:

Tracy Brettmann, P.E.
Berkel & Company Contractors Inc.
Richmond, TX, USA

Robert B. Bittner, P.E.
Ben C. Gerwick, Inc.
San Francisco, CA, USA

Maurice Bottiau
Franki Geotechnics B
Saintes, Belgium

Dan A. Brown, Ph.D.
Auburn University
Auburn, AL, USA

Christopher E. Dumas, P.E.
Driven Technologies
Arlington, VA, USA

James S. Graham, P.E.
Consultant
Rye, NY, USA

Steven M. Hain, Jr.
Steven M. Hain Co. Inc.
Garland, TX, USA

D. Michael Holloway, Ph.D., P.E.
InSituTech, Ltd.
Orinda, CA, USA

Matthew Janes, M.E.Sc. P.Eng.
Isherwood
Burnaby, BC, Canada

Douglas Keller, P.E.
Richard Goettle, Inc.
Cincinnati, OH, USA

Samuel J. Kosa, P.E.
Monotube Pile Corporation
Canton, OH, USA

Kirk A. McIntosh, P.E.
MACTEC Eng. & Consulting Inc.
Jacksonville, FL, USA

Raymond J. Poletto, P.E.
Mueser Rutledge Consulting Engineers
New York, NY, USA

Richard D. Short, P.E., G.E.
Kleinfelder, Inc.
Oakland, CA, USA