

# BIOGRAPHICAL DATA

**BRIAUD, Jean-Louis**

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Holder of the Spencer J.Buchanan Chair  
Department of Civil Engineering  
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## PROFESSIONAL INTERESTS:

Scour and Erosion	Unsaturated Soil Mechanics	Compaction Control
Foundation Engineering	In situ Testing	Structural Mechanics
Shrink-Swell Clays	Field Testing	Pavement Engineering
Retaining Structures	Soil Mechanics	Risk Analysis

## EDUCATION:

- Ph.D., Geotechnical Engineering, University of Ottawa, Canada, 1979.
- M.S., Geotechnical Engineering, University of New Brunswick, Canada, 1974.
- Engineer Degree, Civil Engineering, E.S.T.P. - Paris, France, 1972.
- Baccalaureat en Mathematique, Lycee Fromentin, France, 1966

## EXPERIENCE:

### Educational

- Spencer J. Buchanan Chair in Civil Engineering, Texas A&M University, 2002-present
- Director, US National Geotechnical Experimentation Site (TAMU) for NSF and FHWA, 1992-present.
- Spencer J. Buchanan Professorship in Civil Engineering, Texas A&M University, May 1992-2002.
- Area Leader, Geotechnical Engineering and Surveying, Texas A&M University, 1988-1993.
- Manager, Geotechnical and Geoenvironmental Engineering Program, Texas Transportation Institute, 1989-Present.
- Professor of Civil Engineering, Texas A&M University, 1986-Present.
- Engineer, Laboratoire Central des Ponts et Chaussees, France, Academic Study Leave, January-May 1988.
- Halliburton Associate Professor of Civil Engineering, Texas A&M University, 1982-1985.
- Associate Professor, Civil Engineering, Texas A&M University, 1982-1985.
- Assistant Professor, Civil Engineering, Texas A&M University, 1978-1982.
- Teaching Assistant, University of Ottawa, Canada, 1976-1978.
- Lecturer, University of New Brunswick, Canada, 1974-1976.
- Teaching Assistant, University of New Brunswick, Canada 1972-1974.

### Industrial

- Geotechnical Consulting Work (1974-present) - Both in Canada and in the USA on various topics including slope stability, highway embankments, oil tank foundations, deep

foundations, shallow foundations, docking facilities, tunnels, pressuremeter testing onshore and offshore, scour of foundations.

- President, Briaud Engineers, 1982-present.

## **PROFESSIONAL LICENSES:**

Registered Professional Engineer, Texas No. 48690.

## **SOCIETY MEMBERSHIPS:**

American Society of Civil Engineers (1978 - present)  
Canadian Geotechnical Society (1976-1988, 2003-2005)  
American Society for Testing and Materials (1985 - 1992)  
International Society of Soil Mechanics and Foundation Engineering (1980 - present)  
American Society of Foundation Engineers (1990 - present)

## **HONORS, AWARDS, LISTINGS AND PATENTS:**

- 2005 Keynote Lecture at the Deep Foundation Institute Annual Congress, Chicago, Sept 2005
- 2005 Invited Lecture at the international Conference on “The Pressuremeter”, Paris, August 2005
- 2005 Chair of Opening Session of the ICSMGE in Osaka, Japan, Sept 2005.
- 2004 Member of the Board of Governors of the Geo-Institute of the Geo-Institute of ASCE
- 2004 Invited Lecture in Singapore (November 2004) at the Second International Conference on Scour and Erosion.
- 2004 Keynote Lecture delivered in Tunisia (February 2004) on “Bridge Scour Risk and Predictions” at the Conference on Risks in Civil Engineering
- 2003 President of USUCGER (American Association of Geotechnical Engineering Professors)
- 2003 Invited Lecture delivered in Toronto, Canada (April 2003) to the Ontario Section of the Canadian Society of Geotechnical Engineers on Scour at Bridges.
- 2003 Invited Lecture delivered in Porto, Portugal (June 2003) at the University of Minho on Scour at Bridges.
- 2003 Invited Lecture delivered in Paris, France (November, 2003) at the International Symposium on Shallow Foundations.
- 2002 Invited Lecture at the First International Conference on Scour of Foundations.
- 2002 Invited lecture in Paris at The Ecole National des Ponts et Chaussees in the Navier Amphitheater.
- 2002 Spencer J. Buchanan Chair, Texas A&M University
- 2001 Member of the Board of USUCGER
- 2001 Invited lecture in Istanbul (August 2001) at the International Conference on Soil Mechanics and Geotechnical Engineering on the topic of “USA Practice for Scour Prediction at Bridges”
- 2001 Invited lecture at the National ASCE convention in Houston (October 2001) on the topic of “Predicted and Measured Movements of Footings on Expansive Soils”.
- 2001 Chair the international committee on “Geotechnics of Soil Erosion “ of the International Society of Soil Mechanics and Geotechnical Engineering”
- 2000 Chair of the First International Conference on Scour of Foundations
- 1999 Invited Keynote Lecturer - Korean National Geotechnical Conference - Scour Rate at Bridge Piers, Seoul, Korea, March 27, 1999.
- 1999 Special International Lecture on Scour Rate at Bridge Piers, Japanese Geotechnical Society, Tokyo, Japan, March 31, 1999.

- 1999 Special International Lecture – Institute for Geomechanics and Materials – Recent Advances in Retaining Structures, Beirut, Lebanon, August 27, 1999.
- 1999 Special International Lecture – Institute of Civil Engineers – Load Settlement Curve for Spread Footing Design, Sao Paulo, Brazil, May 17, 1999.
- 1999 The 1999 Ardaman Lecture – The University of Florida – Pressuremeter: Recent Advances, Gainesville, Florida, February 1999.
- 1998 The TTI/Zachry Senior Researcher Award.
- 1998 ASCE - Texas Section - Best of Sessions Award for the paper “Shrink Test for Predicting Heave and Shrink Movements”.
- 1997 Chair, International Society for Soil Mechanics and Geotechnical Engineering, Technical Committee on Scour of Foundations
- 1995 Who’s Who Among America’s Teachers.
- 1995 Invited Lecture on Pressuremeter Method for Spread Footings on Sand, 4<sup>th</sup> International Symposium on the Pressuremeter, Montreal, Canada.
- 1994 ASCE Citation for one of the 14 best papers in Geotechnical Engineering.
- 1994 ASCE Citation for one of the ten most published authors in Civil Engineering.
- 1994 Two invited plenary session lectures on Spread Footing Foundations at the 1994 ASCE conference in College Station, TX.
- 1993 Promoted to the rank of Fellow in the American Society of Civil Engineers.
- 1993 Zachry Award for Excellence in Teaching, Department of Civil Engineering, Texas A&M University.
- 1993 International Who’s Who of Intellectuals.
- 1992 Spencer J. Buchanan Professorship, Texas A&M University, 1992-present.
- 1992 Selected as the 1992 Cross Canada Lecturer by the Canadian Geotechnical Society. Gave 10 lectures across Canada in November 1992 from British Columbia to New Brunswick.
- 1990 Texas A&M University, TEES Fellow Award for Significant Contributions in Engineering Research.
- 1988 ASCE, Texas Section, Best of Session Award for the Paper “Measured and Predicted Axial Response of 98 Piles”.
- 1988 Texas A&M University, TEES Fellow Award for Significant Contributions in Engineering Research.
- 1987 The 1987 Walter L. Huber Civil Engineering Research Prize, American Society of Civil Engineers, for notable achievements in Civil Engineering research.
- 1987 Special Service Award, American Society for Testing and Materials, as Chair of the 2<sup>nd</sup> International Symposium on the Pressuremeter and Editor of the Proceedings.
- 1986 ASCE Citation for one of the ten best papers in Geotechnical Engineering.
- 1986 Invited state-of-the-art lecture on Pressuremeter and Foundation Engineering at ASCE Specialty Conference in June 1986.
- 1985 Halliburton Award of Excellence, Texas A&M University for Outstanding Achievement and Professionalism in Education, Research, and Service to Students.
- 1983 ASCE, Texas Section, Best of Session Award for the Paper “Pressuremeter p-y curve Method for Static Laterally Loaded Piles”.
- 1983 ASCE, Texas Section, H.B. Hawley Award for Best Paper of the Year in Civil Engineering for the paper “Pressuremeter P-y Curves Method for Static Laterally Loaded Piles”.
- 1981 American Society for Testing and Materials, Hogentogler Award for Best Paper of the Year in Geotechnical Engineering.
- 1978 Annual Student Forum - Canadian Geotechnical Society, Ottawa, Canada.
- 1978 National Research Council Scholarship, Canada.

## **COMMERCIAL ENDEAVORS:**

- The BCD (Briaud Compaction Device) – patent pending, 2004
- The EFA: Erosion Function Apparatus, patent no.: US6260409B1 (July 17, 2001)
- SHALDB and PRESRED: Two software programs - patenting in progress, 1998
- The TEXAM Pressuremeter: sold commercially for foundation design by ROCTEST, Inc., Plattsburg, New York, 1982.
- The PENCEL: sold commercially for pavement design by ROCTEST, Inc., Plattsburg, New York, 1980.
- The WAK test and the LATWAK test: Impact tests for foundation evaluation.

## **PROFESSIONAL SERVICE:**

### **United States University Council on Geotechnical Education & Research**

President, 2003-2005

Board Member, 2001-2003

Member, 1985-present.

### **American Society of Civil Engineers**

Member of the Board of Governors of the Geo-Institute of ASCE, 2004-present

Chair, ASCE-GeoInstitute Committee on Geotechnics of Soil Erosion, 2003-2005

Member, Residential Structures on Expansive Soils, National Committee, 1993-present.

Chair, Organizing Committee, SETTLEMENT >94, ASCE Specialty Conference.

Chair, Committee on Shallow Foundations, 1990-1994.

Control Group Member, Deep Foundations, National Committee, 1986-1995.

Control Group Member, Shallow Foundations, National Committee, 1986-1988.

Member, Shallow Foundations, National Committee, 1982-1986.

Member, Shallow Foundations, National Committee, 1982-1986.

Director, Brazos Branch, 1983-1985.

Chair, Continuing Education, Texas Section, 1983-1984.

President, Brazos Branch, 1982-1983.

Chair, Geotechnical Engineering Division, Texas Section, 1982-1983.

Vice President, Brazos Branch, 1981-1982.

Vice Chair, Geotechnical Engineering Division, Texas Section, 1981-1982.

Secretary-Treasurer, Geotechnical Engineering Division, Texas Section, 1980-1981.

### **International Society of Soil Mechanics and Foundation Engineering.**

Chair, International Committee ISSMGE – TC33 Geotechnics of Soil Erosion, 2005-present

Chair, International Committee ISSMGE – TC33 Geotechnics of Soil Erosion, 2001-2005

Chair, First International Conference on Scour of Foundations, 2002

Chair, International Committee ISSMGE - TC33 Scour of Foundations, 1997-2001

Member, 1980-present.

Member of the International Committee on Pressuremeters and Dilatometers, 1990-1994.

Member of the International Committee on Ground Property Characterization from In-situ Testing, 1994-present.

### **Comite Francais de Mecanique des Sols, France**

Member, 1977-1986

### **American Society for Testing and Materials**

Chair, Pressuremeter Testing, National Committee, 1983-1991.

Member, Marine Geotechnics, National Committee, 1983-1991.

Chair, Organizing Committee, Second International Symposium on the Pressuremeter, Texas A&M University, 1986.

Member, Sampling and Related Field Testing, National Committee, 1981-1991.

Member, Deep Foundations, National Committee, 1981-1991.

Member, Hogentogler Award Committee, 1981-1985.

### **Transportation Research Board, National Research Council**

Member, Hydraulic, Hydrology, Water Quality, National Committee, 2001-present

Member, Scour Research Subcommittee, (1997-present)

Member, Foundation of Bridges and other Structures, National Committee, 1984-1996.

Chair, Subcommittee on Shallow Foundations, Committee on Foundations of Bridges and other Structures, National Committee, 1990-1996.

## **COURSES TAUGHT**

Introduction to Civil Engineering

Slope Stability

Theoretical Soil Mechanics

Site Investigations in Geotechnical Engineering

Case Histories in Geotechnical Engineering

Foundations Engineering

Geotechnical Engineering Design

Introduction to Geotechnical Engineering

Elementary Structural Analysis

Strength of Materials

Applied Mechanics

Written and Oral Communications for Engineers

## **GRADUATE STUDENTS (1978-2004 - COMMITTEE CHAIR)**

75 Master students and 29 PhD students

Jung Tsan Hung, M.S.,	1981.	Chi Min Kon, M.S.,	1988.
Larry Tucker, M.S.,	1982.	K. C. Gan, M.S.,	1988.
Mike Meriweather, M.S.,	1982.	Robert Little, M.S.,	1988.
Enrique Galand, M.S.,	1983.	Mark Kubena, M.S.,	1989.
Gerald Jordan, M.E.,	1983.	Mohamed Quraishi, M.S.,	1989.
Hubert Porwoll, M.S.,	1983.	Rick Dupin, M.S.,	1989.
Jee Anderson, M.S.,	1983.	Zadir Aljurjia, M.S.,	1989.
Stewart Kling, M.E.,	1983.	J. Liu, M.S.,	1990.
Trevor Smith, Ph.D.,	1983.	A. Abu-Bakar, M.S.,	1991.
Bill Lawson, M.S.,	1984.	Christophe Broncard, M.S.,	1991.
Ken Riner, M.S.,	1984.	Jerome Miran, M.E.,	1991.
Linda Huff, M.E.,	1984.	Jim Maxwell, M.S.,	1991.
Tim Braswell, M.S.,	1984.	Marc Ballouz, M.S.,	1991.
Anwar Noubani, M.E.,	1985.	Mark Mazoch, M.S.,	1991.
Chaidir Makarim, Ph.D.,	1985.	Philippe Jeanjean, M.S.,	1991.
Dario Perdomo, M.S.,	1985.	Rajan, Viswanathan, M.E.,	1991.
Guy Felio, Ph.D.,	1985.	Randy Bush, M.S.,	1991.
Paul Cosentino, Ph.D.,	1985.	Adel Chaouch, M.S.,	1992.
Tom Terry, M.S.,	1985.	Bill Powers, M.S.,	1992.

Karim Khalaf, M.S.,	1992.	Patrick Beecher, M.E.,	1999.
Laurent Boursin, M.S.,	1992.	Seung-Woon Han, M.E./Ph.D	1999.
Moon Kyung Chung, M.S.,	1992.	Byoung-Jae Mun, M.E.,	2000.
Sangseom Jeong, Ph.D.,	1992.	Christopher May, M.E.,	2000.
Christian Guillin, M.S.,	1993.	Khaled Chowdhury, M.E.,	2000.
Marc Ballouz, Ph.D.,	1993.	Kiseok Kwak, Ph.D.,	2000.
Matt Marcontell, M.E.,	1993.	Adil Shah, M.E.,	2001.
Robert Gibbens, M.S.,	1993.	Libby Hungerford, M.E.,	2001.
Todd Swoboda, M.E.,	1993.	Saifur Rahman, M.E.,	2001.
Adel Chaouch, Ph.D.,	1994.	Siyoung Park, M.E.,	2001.
George Nasr, M.E.,	1994.	Yiwen Cao, M.E.,	2001.
Julien Kouchner, M.S.,	1994.	Hunsoo-Ha, M.E.,	2002.
Krishna Goparaju, Ph.D.,	1994.	Keungyoung Rhee, M.E.,	2002.
Nak-Kyung Kim, Ph.D.,	1994.	Nick Jaynes, M.E.,	2002.
Pramod Katta, M.E.,	1994.	Prahoru Nurtjahyo, Ph.D.,	2002.
Tom Posey, M.S.,	1994.	Byoung-Jae Mun, M.E.,	2003.
Chengcai Tao, M.S.,	1995.	J.-B. Seo, Ph.D.,	2003.
David Baroi, M.E.,	1995.	Jun Wang, Ph.D.,	2003.
Philippe Jeanjean, Ph.D.,	1995.	Sang-Ho Moon, Ph.D.,	2003.
Srini Donthireddy, M.S.,	1995.	Xiong Zhang, Ph.D.,	2003.
Bertrand Philogene, M.E.,	1996.	Ya Li, Ph.D.,	2003.
Kabir Hossain, Ph.D.,	1996.	Yanfeng Li, Ph.D.,	2004.
Phyllis McAdoo, M.S.,	1996.	Cassie Rutherford, M.E.,	2004.
Yu-Jin Lim, Ph.D.,	1996.	Youngan Chung, M.E.,	2004.
Alfonso Soto, M.E.,	1997.	Sumeet Khanna, M.E.	2005.
George Nasr, D.E.,	1997.	Namgyu Park, Ph.D.,	2005.
Rao Gudavalli, Ph.D.,	1997.	Remon Melek, Ph.D.,	2005.
Stacey Hoffman, M.E.,	1997.	Wei Wang, Ph.D.,	2005.
Suresh Perugu, Ph.D.,	1997.	Matt Miller, M.E.	2005.
Abdul Suroor, M.E.,	1998.	Jennifer Nicks	2005.
David Baroi, Ph.D.,	1998.	Seung Jae Oh, Ph.D.,	2006.
Heemun Park, M.E.,	1998.	Xingnian Chen, Ph.D.,	2006.
Jayson Barfknecht, M.E.,	1998.	Kangmi Kim, Ph.D.,	2007.
Colin Moffett, M.E.,	1999.	Anand VGovindasamy, PhD.	2009.
Cristi Cuellar, M.E.,	1999.	Jennifer Nicks, PhD,	2010.
Jong-Hyub Lee, M.E.,	1999.		
Kook-Hwan Cho, M.E.,	1999.		

## BOOKS

### Book (authored)

1. **BRIAUD, J.L.**, The Pressuremeter, A. A. Balkema, Rotterdam, Netherlands, 1992.

### Books (edited)

1. **CHEN H.-C., BRIAUD J.-L.**, editors, Proceedings of the First international Conference on Scour of Foundations, November 2002, Texas A&M University, USA.
2. **BRIAUD, J.-L.**, editor, Proceedings, Symposium on Scour of Foundations held in Melbourne, Australia, Dpt. of Civil Engineering, Texas A&M University, College Station, Texas, USA, 2000.
3. **BRIAUD, J.L., GIBBENS, R.M.**, editors, Predicted and Measured Behavior of Five Spread Footings on Sand, ASCE Geotechnical Special Publication No. 41, June 1994.

4. **BRIAUD, J.L.**, editor, Foundations for Transmission Line Towers, ASCE Geotechnical Publication No. 8, Atlantic City meeting, April 1987.
5. **BRIAUD, J.L., AUDIBERT, J.M.E.**, editors, "The Pressuremeter and Its Marine Applications," ASTM STP 950, May 1986.
6. **BRIAUD, J.L.**, editor, Proceedings, Geotechnical Engineering Sessions held in Corpus Christi, Texas on March 18-19, 1983, Texas Section, San Antonio, 1983.

## TECHNICAL PAPERS AND CONTRIBUTIONS TO BOOKS

1. **BRANDIMARTE L., MONTANARI A., BRIAUD J.-L., D'ODORICO P.**, 2006, "Stochastic Flow Analysis for Predicting Scour of Cohesive Soils", *Journal of Hydraulic Engineering*, Vol. 132, No. 5, May 2006, ASCE, Reston, Virginia, USA.
2. **BRIAUD J.-L., LI Y., RHEE K.**, 2006, "BCD: A Soil Modulus Device for Compaction Control", *Journal of Geotechnical and Geoenvironmental Engineering*, Vol 132, Number 1, January 2006, ASCE, Reston, Virginia, USA.
3. **BRIAUD J.-L., CHEN H.-C.**, 2005, "The EFA, Erosion Function Apparatus: An Overview", Proceedings of the International Conference on Soil Mechanics and Geotechnical Engineering, Osaka, Japan, September 2005.
4. **BRIAUD J.-L.**, 2005, "The Preboring Pressuremeter: Some Contributions", Keynote Lecture, Proceedings of the International Conference on the Pressuremeter, August 22-24, 2005, Paris, France.
5. **BRIAUD J.-L.**, 2005, "Erodibility of Fine Grained Soils and New Soil Test", Proceedings of the Geo-Frontiers Congress, Geo-Institute, ASCE, Austin, January 23-26, 2005
6. **BRIAUD J.-L., CHEN H.-C., LI Y., NURTJAHYO P., WANG J.**, 2005, "The SRICOS-EFA Method for Contraction Scour in Fine Grained Soils", *Journal of Geotechnical and Geoenvironmental Engineering*, Vol 131, Number 10, October 2005, ASCE, Reston, Virginia, USA.
7. **RUTHERFORD, C. J., BISCONTIN, G. AND BRIAUD, J.-L.**, 2005, "Deformation predictions based on estimations of soil cement modulus and flexural stiffness." *Proc., The 11<sup>th</sup> Int. Conference of IACMAG*, June 19-24, 2005, Turin, Italy, Vol. 3, 433-440.
8. **BRIAUD J.-L., CHEN H.-C., LI Y., NURTJAHYO P., WANG J.**, 2004, "The SRICOS-EFA Method for Complex Piers in Fine Grained Soils", *Journal of Geotechnical and Geoenvironmental Engineering*, Vol 130, No. 11, p1180-1191. ASCE, Reston, Virginia, USA.
9. **BRIAUD J.-L., CHEN C.H., KWAK K., WANG J., XU J.**, 2004, "The SRICOS-EFA Computer Program for Bridge Scour", Invited Lecture, Proceedings of the Second International Conference on Scour and Erosion, held in Singapore, published by World Scientific Publishing Company Pte Ltd, Singapore.
10. **BRIAUD J.-L.**, 2004, "Scour: No. 1 Killer of Bridges", *GeoStrata*, Fall Issue, published by the Geo-Institute, ASCE, Reston, Virginia, USA.
11. **BRIAUD J.-L.**, 2004, "In Situ Testing and Foundation Engineering: Recent Contributions", Proceedings of ISC-2, Conference on In Situ Soil Characterization, Porto, Portugal, published by Millpress Science Publishers, Rotterdam, The Netherlands.
12. **BRIAUD J.-L., LI Y.**, 2004, "A BCD for Compaction Control", Proceedings of the Texas Section of the ASCE meeting in Austin, published by the Texas Section of ASCE, Austin, Texas, USA.
13. **RUTHERFORD C., BISCONTIN G., BRIAUD J.-L.**, 2004, "Deep Mixing for Excavation Support: Design Issues", Proceedings of the GEOTRANS Conference held in Los Angeles, July 2004, ASCE Geo-Institute, Reston, Virginia, USA.
14. **BRIAUD J.-L.**, 2003, "Il y-a-t-il un Effet de Taille et d'Encastrement pour les Fondations Superficielles dans les Sables", *Revue Francaise de Geotechnique* (French Journal of

- Geotechnical Engineering), No. 105, 4th Trimester, pp. 29-39, French Geotechnical Engineering Society, Paris, France.
15. **BRIAUD J.-L., HOSSAIN\* K., BARFKNECHT\* J.**, 2003, “Methode de la Courbe Charge-Tassement pour les Fondations Superficielles dans les Sables”, *Revue Francaise de Geotechnique* (French Journal of Geotechnical Engineering), No. 105, 4th Trimester, pp. 15-27, French Geotechnical Engineering Society, Paris, France.
  16. **BRIAUD J.-L., ZHANG X., MOON S.**, 2003, “Shrink Test – Water Content Method for Shrink and Swell Predictions”, *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 129, No.7, pp. 590-600, July. 2003, ASCE, Reston, Virginia.
  17. **ZHANG X., BRIAUD J.-L.**, 2003, “Predicting the Volume Change of Shrink Swell Soils”, Proceedings of the Texas Section, American Society of Civil Engineers, Fall Meeting, Dallas, Texas, USA, September 24-27, 2003, [www.texasce.org](http://www.texasce.org).
  18. **NIEDORODA A.W., JEANJEAN P., DRIVER D., REED C.W., HATCHETT L., BRIAUD J.-L., BRYANT W.**, 2003, “Bottom Currents, Deep Sea Furrows, Erosion Rates, and Dating Slope Failure-Induced Debris Flows Along the Sigsbee Escarpment in the Deep Gulf of Mexico”, Proceedings of the Offshore Technology Conference, Houston, Texas, USA.
  19. **BRIAUD J.-L.**, 2002, “Foundation Engineering: Some recent Contributions”, *Geotechnical Engineering*, Vol. 18, No. 9, pp. 16-30, Korean Geotechnical Engineering Society, Seoul, Korea.
  20. **BRIAUD J.-L., BALLOUZ, M., NASR, G.**, 2002, “Defect and Length Prediction by NDT Methods for Nine Bored Piles,” Proceedings of the International Deep Foundation Congress, Orlando, Florida, February 14-16, 2002.
  21. **BRIAUD J.-L., GOPARAJU, K., DAHM, P. F.**, 2002, “The T.E.A.M. Method in Geotechnical Engineering,” Proceedings of the International Deep Foundation Congress, Orlando, Florida, February 14-16, 2002.
  22. **BRIAUD J.-L., TING F., CHEN H.-C., GUDAVALLI, R.**, 2002, “Maximum Scour Depths Around a Bridge Pier in Sand and in Clay Are Equal?”, Proceedings of the International Deep Foundation Congress, Orlando, Florida, February 14-16, 2002.
  23. **BRIAUD J.-L., HOFFMAN, S. B., POSEY T., WOODFIN, G.**, 2002, “PREMISS: Phase Relationship Equation for Moisture Induced Swell in Soils,” Proceedings of the Third International Conference on Unsaturated Soils, Recife, Brasil, March 10-13, 2002.
  24. **BRIAUD J.-L.**, 2002, “The SRICOS-EFA Method”, Invited Lecture, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
  25. **BRIAUD J.-L., D’ODORICO P., JEON E.J.**, 2002, “Future Hydrographs and Scour Risk Analysis”, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
  26. **BRIAUD J.-L., CHEN H.-C., PARK S.**, 2002, “Predicting Meander Migration: Evaluation of Existing Techniques”, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
  27. **LI Y., BRIAUD J.-L., CHEN H.-C., NURTJAHYO P., WANG J.**, 2002, “Shear Stress Approach for Bridge Scour Predictions”, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
  28. **LI Y., BRIAUD J.-L., CHEN H.-C., NURTJAHYO P., WANG J.**, 2002, “Shallow Water Effect on Pier Scour in Clay”, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
  29. **KWAK K., BRIAUD J.-L., CAO Y., CHUNG M.-K., HUNT B., DAVIS S.**, 2002, “Pier

- Scour at Woodrow Wilson Bridge and SRICOS Method”, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
30. **CAO Y., WANG J., BRIAUD J.-L., CHEN H.-C., LI Y., NURTJAHYO P.**, 2002, “EFA Tests and the Influence of Various Factors on the Erodibility Function of Cohesive Soils”, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
  31. **NURTJAHYO P., CHEN H.-C., BRIAUD J.-L., LI Y., WANG J.**, 2002, “Bed Shear Stress Around Rectangular Pier: Numerical Approach”, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
  32. **LI Y., WANG J., WANG W., BRIAUD J.-L., CHEN H.-C.**, 2002, “Flume Tests Results for the ICSF-1 Prediction Event”, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
  33. **LI Y., WANG J., WANG W., BRIAUD J.-L., CHEN H.-C.**, 2002, “Comparison between Predictions and Measurements for the ICSF-1 Prediction Event”, Proceedings of the First International Conference on Scour of Foundations, Dpt. of Civil Engineering, Texas A&M University, College Station, TX, USA ([briaud@tamu.edu](mailto:briaud@tamu.edu)).
  34. **BRIAUD J.-L.**, 2001, "Introduction to Soil Moduli", Geotechnical News, June 2001, BiTech Publishers Ltd, Richmond, B.C., Canada, ([geotechnicalnews@bitech.ca](mailto:geotechnicalnews@bitech.ca)).
  35. **BRIAUD, J.-L., S., ZHANG, X., MOON, S.**, 2001, “The Shrink Test-Water Content Method for Shrink and Swell Predictions”, Proceedings of the ASCE Texas Section spring meeting, Arlington, Texas, March 2002.
  36. **BRIAUD, J.-L., HUNGERFORD, E., CHOWDHURY, K., RAHMAN, S., ZHANG, X., MOON, S.**, 2001, “Request for Prediction of the Movement of Four Footings on Expansive Clay”, Proceedings of the ASCE Texas Section spring meeting, San Antonio, Texas, March 2001, pp75-88.
  37. **TING F., BRIAUD J.-L., CHEN H.-C., GUDAVALLI R., PERUGU S., WEI G.**, 2001, “Flume Tests for Scour in Clay at Circular Piers”, *Journal of Hydraulic Engineering*, Vol. 127, No.11, pp. 969-978, Nov. 2001, ASCE, Reston, Virginia.
  38. **BRIAUD J.-L., TING F., CHEN H.C., CAO Y., HAN S.-W., KWAK K.**, 2001, “Erosion Function Apparatus for Scour Rate Predictions”, *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 127, No.2, pp. 105-113, Feb. 2001, ASCE, Reston, Virginia.
  39. **BRIAUD J.-L., CHEN H.-C., KWAK K., HAN S., TING F.**, 2001, “Multiflood and Multilayer Method for Scour Rate Prediction at Bridge Piers”, *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 127, No.2, pp. 114-125, Feb. 2001, ASCE, Reston, Virginia.
  40. **KWAK K., BRIAUD J.-L., CHEN H.-C.**, 2001, “SRICOS: Computer Program for Bridge Pier Scour”, Proceedings of the 15<sup>th</sup> International Conference on Soil Mechanics and Geotechnical Engineering, Vol. 3, pp 2235-2238, A.A. Balkema Publishers, Rotterdam, The Netherlands.
  41. **BRIAUD J.-L., CHEN H.-C., KWAK K.**, 2000, “The EFA: Erosion Function Apparatus: an Overview”, Proceedings of the International Symposium on Scour of Foundations held in Melbourne, Australia on November 19, 2000, Civil Engineering, Texas A&M University, College Station, Texas, USA, pp. 80-86.
  42. **BRIAUD J.-L.**, 2000, “The National Geotechnical Experimentation Sites at Texas A&M University: Clay and Sand”, Geotechnical Special Publication No. 93, pp. 26-51, American Society of Civil Engineers, Reston, Virginia.

43. **BRIAUD J.-L., CHEN H.-C., KWAK K.,** 2000, "The SRICOS Method: a Summary", Proceedings of the International Symposium on Scour of Foundations held in Melbourne, Australia on November 19, 2000, Civil Engineering, Texas A&M University, College Station, Texas, USA, pp 16-22.
44. **BRIAUD J.-L., BALLOUZ M., NASR G.,** 2000, "Static Capacity Prediction by Dynamic Methods for Three Bored Piles", *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 126, No.7, pp. 640-649, July 2000, ASCE, Reston, Virginia.
45. **BRIAUD J.-L., NICHOLSON P., LEE J.,** 2000, "Behavior of a Full-Scale VERT Wall in Sand", *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 126, No.9, pp. 808-818, September 2000, ASCE, Reston, Virginia.
46. **BRIAUD J.-L., GIBBENS R.,** "Behavior of Five Spread Footings in Sand," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 125, No.9, pp. 787-797, September 1999, ASCE, Reston, Virginia.
47. **BRIAUD J.-L., LIM Y.,** "Tieback Walls in Sand: Numerical Simulation and Design Implications," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 125, No. 2, pp. 101-111, February 1999, ASCE, Reston, Virginia.
48. **BRIAUD J.-L., TING F. C. K., CHEN H. C., GUDAVALLI R., PERUGU S., WEI G.,** "SRICOS: Prediction of Scour Rate in Cohesive Soils at Bridge Piers," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 125, No.4, pp. 237-246, April 1999, ASCE, Reston, Virginia.
49. **CHEN, H.C., BRIAUD, J.-L., TING, F., WEI, G., GUDAVALLI, R., PERUGU, S.,** "Numerical Simulation of Scour Process Around a Prototype Pier under Flood Conditions," Proceedings of the 13<sup>th</sup> ASCE Engineering Mechanics Conference, John Hopkins University, Baltimore, MD, June 13-16, 1999.
50. **BRIAUD, J.-L., BEECHER, P.,** Shrink Test to Predict Shrink - Swell Movement of Soils, Proceedings of the ASCE Texas Section meeting, Dallas, Texas, September 1998, pp 103-122.
51. **BRIAUD, J.L., POWERS, W.F., WEATHERBY, D.E.,** "Should Grouted Anchors Should Have Short Tendon Bond Length", *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 124, No. 2, ASCE, New York, February 1998.
52. **BRIAUD, J.L., KIM, N.K.,** Beam Column Method for Tieback Walls, *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 124, No. 1, ASCE, New York, January 1998.
53. **BRIAUD, J.L.,** "Bitumen Selection for Downdrag on Piles," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 123, No. 12, ASCE, New York, December 1997.
54. **BRIAUD, J.L., LIM, Y.,** "Soil Nailed Wall Under Piled Bridge Abutment: Simulation and Guidelines," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 123, No. 11, ASCE, New York, November 1997.
55. **BRIAUD, J.L.,** "SALLOP: Simple Approach for Lateral Loads on Piles," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 123, No. 10, pp. 958-964, ASCE, New York, October 1997.
56. **JEONG, S., KIM, S., BRIAUD, J.-L.,** "Analysis of Downdrag of Pile Groups by the Finite Element Method," *Computers and Geotechnics*, Vol. 21, No. 2, pp 143-161, Elsevier Science, Oxford, UK, September 1997.
57. **BRIAUD, J.L., CHAOUCH, A.,** "Hydrate Melting Around Hot Conductor," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol 123, No. 7, pp. 645-653, ASCE, New York, July 1997.
58. **YEUNG, A.T., VISWANATHAN, R., BRIAUD, J.L.,** "A Field Investigation of Potential Contamination by Bitumen-Coated Piles," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 122, No. 6, pp. 736-744, ASCE, New York, September 1996.

59. **BRIAUD, J.L., MAHER, S.F., JAMES, R.W.**, “Bump at the End of the Bridge,” Civil Engineering, Vol. 67, No. 5, pp. 68-69, ASCE, New York, May 1997.
60. **CHAOUCH A., BRIAUD, J.L.**, “Post Melting Behavior of Gas Hydrates in Soft Ocean Sediments,” Offshore Technology Conference, OTC paper no. 8292, Houston, May 1997.
61. **BRIAUD, J.L., BALLOUZ, M.**, “LATWAK: Impact Test for Lateral Static Stiffness of Piles,” *Journal of Geotechnical Engineering*, Vol. 122, No. 6, pp. 437-444, ASCE, New York, June 1996.
62. **BRIAUD, J.L.**, “Downdrag on Piles and Reduction With Bitumen,” Proceedings of a seminar sponsored by the Metropolitan Section, American Society of Civil Engineers, New York, November 1995.
63. **BRIAUD, J.L.**, “Pressuremeter Method for Spread Footings on Sand,” Proceedings of the 4<sup>th</sup> International Symposium on Pressuremeters, Montreal, Canada, May 1995.
64. **BRIAUD, J.L., JEANJEAN, PH.**, “Load Settlement Curve method for Footings on Sand,” invited lecture and ASCE top 14 papers in Geotechnical Engineering in 1994, *ASCE Specialty Conference “Settlement 94”*, Texas A&M University, June 1994.
65. **BRIAUD, J.L., GIBBENS, R.**, “Test and Prediction Results for Five Large Spread Footings on Sand,” invited lecture, *ASCE Geotechnical Special Publication No.41*, 1994.
66. **BUSH, R., BRIAUD, J.L.**, “Measured Downdrag on Seven Coated and Uncoated Piles in New Orleans,” *ASCE Specialty Conference “Settlement 94,”* Texas A&M University, June 1994.
67. **JEONG, S., BRIAUD, J.L.**, “Nonlinear Three-dimensional Analysis of Downdrag on Pile Groups,” *ASCE Specialty Conference “Settlement 94,”* Texas A&M University, June 1994.
68. **MAXWELL, J., BRIAUD, J.L.**, “WAK Tests to Predict Settlement and Mass of 53 Spread Footings,” *ASCE Specialty Conference “Settlement 94,”* Texas A&M University, June 1994.
69. **BRIAUD, J.L.**, “Research Needs in Shallow Foundations,” Paper No. CJO22, *Transportation Research Record*, Washington, D.C., January 1993.
70. **BRIAUD, J.L.**, “Spread Footing Design and Performance,” 10<sup>th</sup> International Bridge Conference, FHWA Seminar, Pittsburg, June 1993.
71. **YEUNG, A.T., BRIAUD, J.L., COYLE, H.M.**, “Relations With Industry: How Can They Help in Engineering Education?,” ASEE Gulf Southwest Section Meeting, Austin, April 1993.
72. **BRIAUD, J.L., KHALAF, K.**, “Driven Then Pushed Minicone Tests in a Sand Chamber,” *ASCE Convention, Geotechnical Session on Deep Foundations*, Dallas 1993.
73. **HOSSAIN, K., BRIAUD, J.L.**, “Pipe Piles in Sands: An Improved Method,” Offshore Technology Conference, Houston, May 1993
74. **BRIAUD, J.L.**, “In Situ Tests and Nondestructive Tests: Research Needs,” U.S.—China NSF Workshop on Research Needs in Geotechnical Engineering, NSF, Washington, DC, 1992.
75. **BRIAUD, J.L.**, (Chairman) and the ASCE Shallow Foundation Committee, “Shallow Foundation Data Base,” *ASCE Geotechnical Congress*, Denver, June 1991.
76. **BRIAUD, J.L.**, “The Pressuremeter: Some Special Applications,” *ASCE Geotechnical Engineering Congress*, Denver, June 1991.
77. **BRIAUD, J.L., JEONG, S., BUSH, R.K.**, “Group Effect in the Case of Downdrag,” *ASCE Geotechnical Engineering Congress*, Denver, June 1991.
78. **ENLEY, S.N., DUNLAP, W.A., SNOW, C., KNUCKEY, D., BRIAUD, J.L., LOWERY, L.L.**, “Performance of an Anchored Sheetpile Wall,” ASCE, Texas Section, San Antonio, Spring 1991.
79. **LEPERT, Ph., BRIAUD, J.L., MAXWELL, J.**, “A Dynamic Method to Assess Actual Stiffness of Soil Underlying Spread Foundations,” *Transportation Research Record*, Washington, 1991.

80. **MAZUCH, M., BRIAUD, J.L.**, “Drilled and Grouted Piles: Construction, Integrity, Capacity,” U.S. Dept. of Interior - MMS Biennial Report: Technical Assessment and Research Program for Offshore Minerals Operations, Washington, 1991.
81. **TZIRITA, A., JEANJEAN, Ph., DUNLAP, W.A., BRIAUD, J.L.**, “Detection of Hydrates by In Situ Testing,” Offshore Technology Conference, No. 6536, Houston, May 1991.
82. **BRIAUD, J.L., LYTTON, R.L.**, “Pavement Design with the Pavement Pressuremeter,” International Conference on the Bearing Capacity of Roads and Airfields, Trondheim, Norway, July 1990.
83. **BRIAUD, J.L., LIU, M.L., LEPERT, Ph.**, “The WAK Test to Check the Increase in Soil Stiffness Due to Dynamic Compaction,” *Geotechnics of Waste Fills: Theory and Practice, ASTM, STP 1070*, Philadelphia, June 1990.
84. **LEPERT, P., BRIAUD, J.L.**, “Dynamic Nondestructive Testing of Footing Stiffness,” Eurodyn >90, Bochum, Germany, June 5-7, 1990.
85. **BRIAUD, J.L., COSENTINO, P. J.**, “Pavement Design With the Pavement Pressuremeter,” *3<sup>rd</sup> International Conference on the Pressuremeter*, Oxford, England, April 1990.
86. **BRIAUD, J.L., LEPERT, Ph.**, “The WAK Test to Find Spread Footing Stiffness,” *Journal of Geotechnical Engineering*, ASCE, March 1990.
87. **BRIAUD, J.L., COYLE, H.M., TUCKER, H.M.**, “Axial Response of 3 Vibratory and 3 Impact Driven H-Piles in Sand,” *Transportation Research Record*, January 1990.
88. **BRIAUD, J.L., MOORE, B.H., MITCHELL, G. B.**, “Analysis of the Pile Load Tests at Lock & Dam No. 26,” *ASCE Foundation Engineering Congress*, Chicago, June 1989.
89. **BRIAUD, J.L., PORWOLL, H.**, ANEWNEG: Microcomputer Program for Downdrag on Piles,” *ASCE Foundation Engineering Congress*, Chicago, June 1989.
90. **BRIAUD, J.L., DUPIN, R.M., KUBENA, M.E.**, “Integrity and Capacity of 3 Drilled and Grouted Piles,” Offshore Technology Conference, Houston, May 1989.
91. **BRIAUD, J.L., TUCKER, L.M., NG, E.**, “Axially Loaded 5 Pile Group and Single Pile in Sand,” Proceedings of the *International Conference of Soil Mechanics and Foundation Engineering*, Rio de Janeiro, August 1989.
92. **BRIAUD, J.L., TUCKER, L.M.**, “Measured and Predicted Axial Response of 98 Piles,” *Journal of Geotechnical Engineering*, Vol. 114, No. 9, ASCE, Reston, VA, USA, Sept. 1988.
93. **COSENTINO, P.J., BRIAUD, J.L.**, “FWD Backcalculated Moduli Compared to Pavement Pressuremeter Moduli and Cyclic Triaxial Moduli,” Proceedings of the *First International Symposium on Nondestructive Testing of Pavements and Backcalculation of Moduli*, ASTM STP, Baltimore, June 1988.
94. **BRIAUD, J.L.**, “Evaluation of CPT Pile Capacity Methods Using a 98 Pile Load Test Data Base,” *First International Symposium on Penetration Testing*, Orlando, March 1988.
95. **BRIAUD, J.L.**, “The Cone Pressuremeter: Results and Applications,” Proceedings of a session at the *First International Symposium on Penetration Testing*, Orlando, March 1988.
96. **COSENTINO, P.J., BRIAUD, J.L., TERRY, T.A.**, “Modelling Rate Effects and Cyclic Loads with the Pressuremeter,” Proceedings of the 11<sup>th</sup> Annual Energy-sources Technology Conference and Exhibition, ASME, New Orleans, January 1988.
97. **BRIAUD, J.L., ANDERSON, J.S., PERDOMO, D., TUCKER, L.M.**, “Evaluation of API Method Using 98 Vertical Pile Load Tests,” Offshore Technology Conference, Houston, May 1987.
98. **BRIAUD, J.L., TUCKER, L.M.**, “Horizontally Loaded Piles Next to a Trench,” Proceedings of an *ASCE Session on Foundations for Transmission Towers*, Atlantic City, April, 1987.

99. **BRIAUD, J.L., TUCKER, L.M.**, “Pieux Charges Horizontalement pres d’une Tranchee,” Foundations of Overhead Supports, EDF, Paris, France, November 1986.
100. **LANDVA, A.O., PHEENEY, P.E., LA ROCHELLE, P., BRIAUD, J.L.**, “Structures on Peatlands - Geotechnical Investigations,” *Peatlands Conference*, Ottawa, August 1986.
101. **BRIAUD, J.L., TUCKER, L.M.**, “Analysis of the Behavior of an Axially Loaded 5 Pile Group and a Control Single Pile in Sand at Hunter’s Point,” Pile Prediction Symposium, Federal Highway Administration, June 1986.
102. **BRIAUD, J.L.**, “Pressuremeter and Foundation Design,” *ASCE Specialty Conference on Use of In Situ Tests in Geotechnical Engineering*, Blacksburg, Virginia, June 1986.
103. **BRIAUD, J.L., TERRY, T.A.**, “Rate Effect for Vertical and Horizontal Pile Response in Clays,” *International Conference on Numerical Methods in Offshore Piling*, Nantes, France, May 1986.
104. **BRIAUD, J.L., FELIO, G.Y.**, “Analysis of Existing Cyclic Vertical Load Tests for Piles in Clay,” Offshore Technology Conference, Paper 5224, Houston, 1986.
105. **FELIO, G.Y., BRIAUD, J.L.**, “Cyclic t-z Curves for Clay Based on Simple Shear Tests,” *International Conference on Numerical Methods in Offshore Piling*, Nantes, France May 1986.
106. **BRIAUD, J.L., TUCKER, L.M.**, “Pressuremeter and Shallow Foundations on Sand,” Settlement of Shallow Foundation on Sand, Session at the *ASCE Convention*, Seattle, April 1986.
107. **BRIAUD, J.L.**, “Pressuremeter and Deep Foundation Design,” *The Pressuremeter and Its Marine Applications: 2<sup>nd</sup> International Symposium*, ASTM STP 950, Texas A&M University, 1986.
108. **BRIAUD, J.L., TUCKER, L.M.**, “Pressuremeter Standard and Pressuremeter Parameters,” *The Pressuremeter and Its Marine Applications: 2<sup>nd</sup> International Symposium, ASTM STP 950*, Texas A&M University, 1986.
109. **FELIO, G.Y., BRIAUD, J.L.**, “Conventional Parameters from Pressuremeter Tests Data: Review of Existing Methods,” *The Pressuremeter and Its Marine Applications: 2<sup>nd</sup> International Symposium, ASTM STP 950*, Texas A&M University, 1986.
110. **TAND, K.E., FUNEGARD, E.G., BRIAUD, J.L.**, “Bearing Capacity of Footings on Clay: CPT Method,” *ASCE Specialty Conference, Use of In Situ Tests in Geotechnical Engineering*, Vicksburg, 1986.
111. **BRIAUD, J.L., FELIO, G.Y.**, “Cyclic Axial Loads in Piles: Analysis of Existing Data,” *Canadian Geotechnical Journal*, Vol. 23, No. 3, 1986.
112. **BRIAUD, J.L., TUCKER, L.M., SMITH, T.D.**, “A Pressuremeter Method for Laterally Loaded Piles,” *International Conference on Soil Mechanics and Foundation Engineering*, San Francisco, August 1985.
113. **FELIO, G.Y., BRIAUD, J.L.**, “Procedure for a Rod Shear Test,” *ASTM Geotechnical Testing Journal*, Vol. 9, No. 3, 1986.
114. **BRIAUD, J.L., DiMILLIO, A.F.**, “Residual Driving Stresses and Vertically Loaded Piles in Cohesionless Soils,” *Public Roads*, Vol. 49, No. 1, June 1985.
115. **BRIAUD, J.L., RABA, C.F., JOHNSON, W.T.**, “Predicted and Measured Performance of a Foundation,” Proceedings of *Drilled Piers and Caissons at ASCE Convention*, Denver, May 1985.
116. **BRIAUD, J.L., FELIO, G.Y.**, “Cyclic Rod Shear Tests in Clay,” Texas Section, ASCE, Geotechnical Engineering Session, Austin, March 1985.
117. **BRIAUD, J.L., GARLAND, E.E.**, “Loading Rate Method for Pile Response in Clay,” *Geotechnical Engineering Journal*, ASCE, March 1985.
118. **BRIAUD, J.L., TUCKER, L.M.**, “Piles in Sand: A Method Including Residual Stresses,” *Geotechnical Engineering Journal*, ASCE, November 1984.

119. **BRIAUD, J.L., TUCKER, L.M.**, “Residual Stresses in Piles and the Wave Equation,” *ASCE Symposium on Deep Foundations*, San Francisco, October 1984.
120. **FELIO, G.Y., LYTTON, R.L., BRIAUD, J.L.**, “Statistical Approach to Bishop’s Method of Slices,” *IV International Symposium on Landslides*, Toronto, September 1984.
121. **BRIAUD, J.L., GARLAND, E.E., FELIO, G.Y.**, “Loading Rate Parameters for Piles in Clay,” Offshore Technology Conference, May 1984.
122. **BRIAUD, J.L., PACAL, A.J., SHIVELEY, A.W.**, “Power Line Foundations Design Using the Pressuremeter,” International Conference on Case Histories in Geotechnical Engineering, St. Louis, May 1984.
123. **BRIAUD, J.L., RINER, K.B., OHYA, S.**, “Cyclic Pressuremeter Tests for Cyclic Lateral Loads,” Offshore Technology Conference, Houston, May 1984.
124. **BRIAUD, J.L., TUCKER, L.M.**, “Coefficient of Variation for In Situ Tests in Sand,” *ASCE Symposium on Probabilistic Characterization of Soil Properties*, Atlanta, April 1984.
125. **BRIAUD, J.L., GAMBIN, M.**, “Suggested Practice for the Preparation of a Pressuremeter Test Borehole,” *Geotechnical Testing Journal*, American Society for Testing and Materials, November 1983.
126. **BRIAUD, J.L., SMITH, T.D., MEYER, B.J.**, “Pressuremeter and Laterally Loaded Piles: Comparison of Existing Methods,” *ASTM Symposium on the Design and Performance of Laterally Loaded Piles and Pile Groups*, Kansas City, June 1983.
127. **JOHNSON, L.D., BRIAUD, J.L., STROMAN, W.R.**, “Lateral Load Test on an Aged Drilled Shaft,” *ASTM Symposium on the Design and Performance of Laterally Loaded Piles and Pile Groups*, June 1983.
128. **BRIAUD, J.L., LYTTON, R.L., HUNG, J.T.**, “Obtaining Moduli from Cyclic Pressuremeter Tests,” Proceedings of the American Society of Civil Engineers, *Journal of the Geotechnical Division*, May 1983.
129. **BRIAUD, J.L., SMITH, T.D., MEYER, B.J.**, “Pressuremeter Gives Elementary Model for Laterally Loaded Piles,” International Symposium on Soil and Rock Investigations by In Situ Testing, Paris, May 1983.
130. **BRIAUD, J.L., SMITH, T.D., MEYER, B.J.**, “Pressuremeter P-y Curve Design Method for Laterally Loaded Piles,” Proceedings of the Geotechnical Engineering Session held in Corpus Christi, Texas, on March 18-19, 1983, ASCE, Texas Section, San Antonio, May 1983.
131. **BRIAUD, J.L., SMITH, T.D., MEYER, B.J.**, “Using the Pressuremeter Curve to Design Laterally Loaded Piles,” Offshore Technology Conference, Houston, May 1983.
132. **SHIELDS, D.H., BRIAUD, J.L.**, “A New Pressuremeter and Test for Pavements,” *International Symposium on Soil and Rock Investigations by In Situ Testing*, Paris, May 1983.
133. **BRIAUD, J.L., MEYER, B.J.**, “In Situ Tests and their Applications in Offshore Design,” *ASCE Specialty Conference on Geotechnical Practice in Offshore Engineering*, Austin, April 1983.
134. **BRIAUD, J.L., LYTTON, R.L., HUNG, J.T.**, “Using a Pressuremeter for Pavement Design and Evaluation,” *International Symposium on Bearing Capacity of Roads and Airfields*, Norwegian Institute of Technology, June 1982.
135. **BRIAUD, J.L., SMITH, T.D., MEYER, B.J.**, “Design of Laterally Loaded Piles using the Pressuremeter Test Result,” *Symposium on the Pressuremeter and Its Marine Applications*, Paris, April 1982.
136. **BRIAUD, J.L., SHIELDS, D.H.**, “Use of a Pressuremeter Test to Predict the Modulus and Strength of Pavement Layers,” *Transportation Research Record, No. 810*, November 1981.

137. **BRIAUD, J.L., SHIELDS, D.H.**, “Pressuremeter Tests at Very Shallow Depth,” Proceedings of the American Society of Civil Engineers, *Journal of the Geotechnical Engineering Division*, Vol. 107, GT8, August 1981.
138. **BRIAUD, J.L.**, “The Pressuremeter: A Promising Apparatus for Pavement Design,” Texas Transportation Researcher, Texas Transportation Institute, July 1980.
139. **BRIAUD, J.L., SHIELDS, D.H.**, “A Special Pressuremeter and Pressuremeter Test for Pavement Evaluation and Design,” *Geotechnical Testing Journal*, American Society for Testing and Materials, Vol. 2, No. 3, September 1979, pp. 143-151.

## **SIGNIFICANT REPORTS**

1. **BRIAUD J.-L., SEO\* J.B.**, 2003, “Intelligent Compaction: Overview and Research Needs”, Report to the Federal Highway Administration, Washington D.C. pp. 84.
2. **BRIAUD J.-L., JAYNES\* N., RHEE\* K., LI\* Y.**, 2003, ” The Geogauge and Compaction Control ”, Report to the Federal Highway Administration, Washington D.C. pp. 183.
3. **BRIAUD J.-L., CHEN H.-C., LI Y., NURTJAHYO P., WANG J.**, 2003, “Complex Pier Scour and Contraction Scour in Cohesive Soils ”, NCHRP Report 516, Transportation Research Board, National Research Council, Washington D.C., USA, pp. 266.
4. **HA H., SEO JB, BRIAUD J.-L.**, 2003, ”Investigation of Settlement at Bridge Approach Slab Expansion Joint: Survey and Site investigations”, Report no.4147-1 to the Texas Department of Transportation, published by the Texas Transportation Institute, Texas A&M University System.
5. **SEO JB., HA H., BRIAUD J.-L.**, 2003, ”Investigation of Settlement at Bridge Approach Slab Expansion Joint: Numerical Simulations and Model Tests”, Report 4147-2 to the Texas Department of Transportation, published by the Texas Transportation Institute, Texas A&M University System.
6. **LI Y., AUBENY C., BRIAUD J.-L.**, 2003, “Geosynthetic Reinforced Pile Supported (GRPS) Embankments: Literature Review, Design Rules, Case Histories, Numerical Simulations”, Report to the Federal Highway Administration, Washington D.C., USA.
7. **BRIAUD J.-L., CHEN H.-C., PARK S.**, 2001, “Predicting Meander Migration: Evaluation of Existing Techniques”, Research Report TX-01/2105-1 to the Texas Dpt. of Transportation, Civil Engineering, Texas A&M University, College station, Texas, USA.
8. **BRIAUD J.-L., CHEN H.-C., EDGE W., PARK S., SHAH A.**, 2001, “Guidelines for Bridges Over Degrading and Migrating Streams: Synthesis of existing Knowledge”, Research Report TX-01/2105-2 to the Texas Dpt. of Transportation, Civil Engineering, Texas A&M University, College station, Texas, USA.
9. **BAROID R., BRIAUD J.-L.**, 2001, “Fundamental Behavior of the Steel-Grout Interface of a Drilled and Grouted Pile”, Research Report, Dpt of Civil Engineering, Texas A&M University, College Station, TX, USA.
10. **FRATINARDO V., HUESTE M.B., BRIAUD J.-L.**, “ Comparative Study of Methods Used to Model Pile Group Foundations Subjected to Dynamic Loading,” Research Report to Mid America Earthquake Center, Civil Engineering, Texas A&M University, College Station, Texas, 2000.
11. **BUCHANAN J., HUESTE M.B., BRIAUD J.-L.**, “ Effect of Liquefaction on the Behavior of a Retrofitted Pile Foundation Subjected to Cyclic Loading”, Research Report to Mid America Earthquake Center, Civil Engineering, Texas A&M University, College Station, Texas, 2000.
12. **GAMEROS S., HUESTE M.B., BRIAUD J.-L.**, “Influence of Retrofit Micro-Piles on Dynamic Behavior of Bridge Pile Foundations”, Research Report to Mid America

- Earthquake Center, Civil Engineering, Texas A&M University, College Station, Texas, 2000.
13. **CAO Y., BRIAUD J.-L.**, “The Influence of Certain Factors on the Erosion Function of Cohesive Soils”, Research Report to NCHRP, Civil Engineering, Texas A&M University, College Station, Texas, 2000.
  14. **CHOWDHURY K., BRIAUD J.-L.**, “Evaluation of EcSS 3000 to Mitigate the Shrink Swell Potential of Soils – Phase IIIA: Data Collection for Six Months”, Research Report to ESSL Inc., Civil Engineering, Texas A&M University, College Station, Texas, 2000.
  15. **HAN S.-W., BRIAUD J.-L.**, “Effect of Soil Properties on Scour”, Research Report, Civil Engineering, Texas A&M University, College Station, Texas, 1999.
  16. **LEE J.-H., BRIAUD J.-L.**, “Behavior of a Full Scale VERT Wall in Sand”, Research Report to Geo-Con, Civil Engineering, Texas A&M University, College Station, Texas, 1999.
  17. **KWAK K., CHEN H.C., TING F.C.K., HAN S.-W., BRIAUD J.-L.**, “Prediction of Scour Depth Versus Time for Bridge Piers in Cohesive Soils in the Case of Multiflood and Multilayer Soil Systems”, Research Report to the Texas DOT, Civil Engineering, Texas A&M University, College Station, Texas, 1999.
  18. **BRIAUD J.-L., TING F., CHEN H.C., GUDAVALLI R., KWAK K., PHILOGENE B., HAN S.-W., PERUGU S., WEI G., NURTJAHYO P., CAO Y., LI Y.**, “SRICOS: Prediction of Scour Rate at Bridge Piers”, Report FHWA/TX-99/2937-1 to the Texas Department of Transportation, Texas Transportation Institute, Texas A&M University System, College Station, Texas.
  19. **BRIAUD, J.-L., GRIFFIN, R.**, “Long Term Behavior of Ground Anchors and Tieback Walls,” Research Report to the Texas Department of Transportation, Texas Transportation Institute, Texas A&M University System, College Station, Texas, 1999.
  20. **BEECHER, P., BRIAUD, J.-L.**, “Shrink Test for Predicting the Shrink-Swell Movement of Soils,” Research Report, Department of Civil Engineering, Texas A&M University, College Station, TX, 1999.
  21. **BARFKNECHT, J., BRIAUD, J.-L.**, “Depth of Embedment Influence for Spread Footings on Sand”, Research Report, Department of Civil Engineering, Texas A&M University, College Station, TX, 1999.
  22. **PARK, H., GRIFFIN, R., BRIAUD, J.-L.**, “Corrosion of Ground Anchors,” Research Report, Department of Civil Engineering, Texas A&M University, College Station, TX, 1998.
  23. **SUROOR, A., YEUNG, A., BRIAUD, J.-L.**, “Delayed Failure of Overconsolidated Clays,” Research Report, Department of Civil Engineering, Texas A&M University, College Station, Texas, 1998.
  24. **WEI, G., CHEN, H.C., TING, F., BRIAUD, J.L., GUDAVALLI, R., PERUGU, S.**, “Numerical Simulation to Study Scour Rate in Cohesive Soils,” Research Report, Department of Civil Engineering, Texas A&M University, College Station, TX, 1997.
  25. **GUDAVALLI, R., TING, F., BRIAUD, J.L., CHEN, H.C., PERUGU, S., WEI, G.**, “Flume Tests to Study Scour Rate of Cohesive Soils,” Research Report, Department of Civil Engineering, Texas A&M University, College Station, TX, 1997.
  26. **HOFFMAN, S.B., BRIAUD, J.L.**, “PREMISS: Phase Relationship Equation for Moisture Induced Swell of Soils,” Research Report, Department of Civil Engineering, Texas A&M University, May 1997.
  27. **SOTO, A.A., BRIAUD, J.L.**, “Observed Long-Term Behavior of Permanent Ground Anchors in Clay and Sand,” Research Report, Department of Civil Engineering, Texas A&M University, April 1997.

28. **LIM, Y., BRIAUD, J.L.,** “Three Dimensional Non Linear Finite Element Analysis of Soil Nailed Wall Under Piled Bridge Abutments,” Report to FHWA, Civil Engineering, Texas A&M University, August 1996.
29. **HOSSAIN, M.K., BRIAUD, J.L.,** “Load Settlement Curve Method for Footings in Sand at Various Depths Under Eccentric or Inclined Loads, and Near Slopes,” Report to FHWA, Civil Engineering, Texas A&M University, June 1996.
30. **PHILOGENE, B., BRIAUD, J.L.,** “Scour of Cohesive Soils: A Literature Review,” Research Report, Civil Engineering, Texas A&M University, June 1996.
31. **McADOO, P.L., BRIAUD, J.L.,** “Evaluating the Applicability of Bioremediation in the Field: A Contaminant-Based Approach,” Research Report, Civil Engineering, Texas A&M University, May 1996.
32. **BAROI, D.R., BRIAUD, J.L.,** “Ground Penetrating Radar for Soil Investigations and Detection of Buried Objects,” Research Report, Civil Engineering, Texas A&M University, August 1995.
33. **TAO, C., BRIAUD, J.L.,** “The National Geotechnical Experimentation Site at Texas A&M University: Soil Data in Electronic Form 1977-1995,” Report NGES-TAMU-004, July 1995 to NSF and FHWA, 1995.
34. **GIBBENS, R., BRIAUD, J.L.,** “Load Tests on Five Large Spread Footings on Sand and Evaluation of Prediction Methods,” Report to FHWA, Washington, November 1995.
35. **BALLOUZ, M., MAXWELL, J., BRIAUD, J.L.,** “WAK Tests on Five Full Scale Footings in Sand,” Report to FHWA, Washington, December 1995.
36. **DONTHREDDY, S., BRIAUD, J.L.,** “Simple Pressuremeter Approach to Lateral Loads on Piles,” Research Report, Texas A&M University, July 1995.
37. **BRIAUD, J.L., JAMES, R.W., HOFFMAN, S.B.,** “Settlement of Bridge Approaches (The Bump at the End of the Bridge),” NCHRP Synthesis 234, Transportation Research Board, Washington, 1997.
38. **BRIAUD, J.L., GIBBENS, R.,** “Large Scale Load Tests and Data Base of Spread Footings on Sand,” Summary Report to FHWA, Washington, December 1995.
39. **KOUCHNER, J., BRIAUD, J.L.,** “In-Situ Bioremediation of Contaminated Soils: A New Monitoring Technique,” research report sponsored by the Spencer J. Buchanan Professorship, Civil Engineering, Texas A&M University, December 1994.
40. **KATTA, P., BRIAUD, J.L.,** “An Overview of In-Situ Bioremediation of Contaminated Soils and Groundwater,” Research Report, Civil Engineering, Texas A&M University, December 1994.
41. **TING, F.C.K., BRIAUD, J.L., GUDAVALLI, S.R., PERUGU, S.B.,** “Feasibility Study for Hydraulic Modeling Facility for Scour Problems,” Research report to the Texas Department of Transportation, Texas Transportation Institute, Texas A&M University System, October 1994.
42. **BRIAUD, J.L., TUCKER, L.M.,** “Design and Construction Guidelines for Downdrag on Uncoated and Bitumen-Coated Piles”, NCHRP Report 393, Transportation Research Board, National Academy Press, Washigton DC, 1997.
43. **POSEY, T.A., BRIAUD, J.L. ,** “Database of Expansive Soil Data from San Antonio and Corpus Christi, Texas,” research report, Civil Engineering, Texas A&M University, September 1994.
44. **MARCONTELL, M., BRIAUD, J.L.,** “The National Geotechnical Experimentation Sites at Texas A&M University: Clay and Sand - Data Collected from January 1993 to July 1994,” Vol. 1, Research Report to the National Science Foundation and the Federal Highway Administration, Civil Engineering, Texas A&M University, August 1994.

45. **GOPARAJU, K., BRIAUD, J.L.**, "The Team Method - A Statistical Approach for Improved Reliability of Pile Capacity Prediction," FHWA Research Report, Civil Engineering, Texas A&M University, July 1994.
46. **NASR, G., BRIAUD, J.L.**, "The Texas A&M University Shallow Foundation Database," research report to the Federal Highway Administration, Civil Engineering, Texas A&M University, June 1994.
47. **CHAOUCH, A., BRIAUD, J.L.**, "Hydrate Melting and Related Foundation Problems," Offshore Technology Research Center research report, Civil Engineering, Texas A&M University, May 1994.
48. **BRUNER, R.F., MARCONTELL, M., BRIAUD, J.L.**, "The National Geotechnical Experimentation Sites at Texas A&M University: Clay and Sand - Survey of the Sites 1993," Report No. NGES-TAMU-002, January 1994.
49. **JEANJEAN, P.H., BRIAUD, J.L.**, "Load Settlement Curves for Spread Footings on Sand From the Pressuremeter Test," Report to FHWA, Civil Engineering, Texas A&M University, December 1995.
50. **SWOBODA, T., BRIAUD, J.L.**, "Common Questions About Residential Foundations on Expansive Clay," Civil Engineering, Texas A&M University, February 1993.
51. **BRIAUD, J.L.**, "National Geotechnical Experimentation Sites at Texas A&M University, Clay and Sand: Data Collected until 1992," Civil Engineering, Texas A&M University, May 1993.
52. **GIBBENS, R., BRIAUD, J.L.**, "Data and Prediction Request for the Spread Footing Predication Event Sponsored by FHWA at the Occasion of the ASCE Specialty Conference: Settlement 94," Texas A&M University, June 1993.
53. **GUILLIN, C., BRIAUD, J.L.**, "Geotechnical: A Finite Element Program on a Personal Computer," Civil Engineering, Texas A&M University, August 1993.
54. **BALLOUZ, M.L., BRIAUD, J.L.**, "Latwak: An Impact Test to Obtain the Lateral Static Stiffness of Piles," Civil Engineering, Texas A&M University, December 1993.
55. **JEONG, S., BRIAUD, J.L.**, "Nonlinear FEM Analysis of Drown drag on Pile Groups," Research Report, Texas A&M University, 1992.
56. **HOSSAIN, K., BRIAUD, J.L.**, "Pipe Piles in Sand: An Improvement for API-RP2A," Offshore Technology Research Report, Texas A&M University, 1992.
57. **BOURSIN, L., BRIAUD, J.L.**, "Baked in Place Casings," Offshore Technology Research Center, Texas A&M University, 1992.
58. **KHALAF, K., BRIAUD, J.L.**, "Driven Cone Penetrometer for Driven Piles," Offshore Technology Research Center, Texas A&M University, 1992.
59. **BRIAUD, J.L.**, "Design and Construction Manual for Drown drag on Piles and its Reduction," Research Report and Videotape to NCHRP, Civil Engineering, Texas A&M University, August 1992.
60. **KIM, N.K., BRIAUD, J.L.**, "P-y Curves for Tieback Walls," Research Report to FHWA, Civil Engineering, Texas A&M University, August 1992. "User's Manual for the WAK TEST: A method of measuring the static stiffness of a soil," research report, Department of Civil Engineering, Texas A&M University, June 1992.
61. **POWERS, W., BRIAUD, J.L.**, "Behavior and Analysis of 10 Full Scale Grouted Anchors," Research Report to FHWA, Civil Engineering, Texas A&M University, May 1992.
62. **CHUNG, M.C., BRIAUD, J.L.**, "Behavior and Analysis of a Full Scale Tieback Wall in Sand," Research Report to FHWA, Civil Engineering, Texas A&M University, March 1992.
63. **CHAOUCH, A., BRIAUD, J.L.**, "Pull Out Test on a Drilled and Grouted Pile Loaded from the Bottom," Research Report to UNOCAL, Civil Engineering, Texas A&M University, March 1992.

64. **BAKER, C.N., DRUMRIGHT, E.E., BRIAUD, J.L. MENSAH, F.D., PARIKH, G.,** “Drilled Shafts for Bridge Foundations,” research report for the Federal Highway Administration, February 1992.
65. **TZCHIRART, A. R., BRIAUD, J.L.,** “User’s Manual for the WAK Test,” Department of Civil Engineering, Texas A&M University, June 1992.
66. **MAXWELL, J., BRIAUD, J.L.,** “WAK Tests on 53 Footings,” Research Report, Civil Engineering, Texas A&M University, December 1991.
67. **MAZOCH, M.E., BRIAUD, J.L.,** “Construction Techniques of Drilled and Grouted Piles for Deep Offshore Platforms: A Critical Assessment,” Research Report to oil companies, Civil Engineering, Texas A&M University, January 1992.
68. **ABU BAKAR, A.S., BRIAUD, J.L.,** “User’s Manual for Shallow Foundation DataBase: Maintenance Option,” Research Report to FHWA, Civil Engineering, Texas A&M University, December 1991.
69. **BRONCARD, C., BRIAUD, J.L.,** “Offshore Construction, Drilling, and Production: An Overview,” Research Report to oil companies, Civil Engineering, Texas A&M University, December 1991.
70. **CHAOUCH, A., BRIAUD, J.L.,** “Pull Out Test on a Drilled and Grouted Pile Loaded from the Top,” Research Report to UNOCAL, Civil Engineering, Texas A&M University, December 1991.
71. **BRIAUD, J.L.,** “The Two Texas A&M University Sites for Geotechnical Experimentation: Sand and Clay,” Civil Engineering, Texas A&M University, September 1991.
72. **BUSH, B.K., VISWANATHAN, R., JEONG, S., BRIAUD, J.L.,** “Downdrag on Bitumen Coated Piles,” NCHRP Report, Civil Engineering, Texas A&M University, September 1991.
73. **BALLOUZ, M., NASR, G., BRIAUD, J.L.,** “Dynamic and Static Testing of Nine Drilled Shafts at Texas A&M University Geotechnical Research Sites,” Research Report to FHWA, Civil Engineering, Texas A&M University, August 1991.
74. **BRIAUD, J.L., MIRAN, J.,** “Guidelines for the Cone Penetrometer Test,” Research Report for the Federal Highway Administration, Civil Engineering, Texas A&M University, 1991.
75. **BRIAUD, J.L., MIRAN, J.,** “Guidelines for the Dilatometer Test,” Research Report for the Federal Highway Administration, Civil Engineering, Texas A&M University, 1991.
76. **JEANJEAN, Ph., BRIAUD, J.L.,** “Detection of Hydrates with the Cone Penetrometer,” Research Report to the Federal Highway Administration, Offshore Technology Research Center, Texas A&M University, 1991.
77. **VISWANATHAN, R., BRIAUD, J.L.,** “Reduction of Downdrag on Piles Using Asphalt,” Research Report, Civil Engineering, Texas A&M University, May 1991.
78. **REDDY, B.M., TUCKER, L.M., BRIAUD, J.L.,** “Analysis of the Pile Foundation at the Olmsted Locks and Dam,” Corps of Engineers, Louisville, April 1990.
79. **LIU, J.L., BRIAUD, J.L.,** “Development of the WAK Test: An Impact to Find Spread Footing Stiffness,” AMOCO, January 1990.
80. **BRIAUD, J.L., ALGURJIA, Z., QURAISHI, M.,** “Downdrag on Bitumen Coated Piles,” Research Report 7112 to NCHRP, Civil Engineering, Texas A&M University, 1989.
81. **DUPIN, R.M., BRIAUD, J.L.,** “Integrity Testing of Drilled and Grouted Piles,” Research Report 5887-1 to Minerals Management Service, Civil Engineering, Texas A&M University, 1989.
82. **KUBENA, M.E., BRIAUD, J.L.,** “Capacity of 2 Drilled and Grouted Piles,” Research Report 5887-2F to Minerals Management Service, Civil Engineering, Texas A&M University, 1989.
83. **BRIAUD, J.L.,** “Guidelines for the Use of the Pressuremeter: Testing and Design,” Manual for the Federal Highway Administration Implementation Division, Report 7068, Civil Engineering, TexasA&M University, 1988.

84. **TUCKER, L.M., BRIAUD, J.L.**, “RATPILE: A Microcomputer Program for Rate of Loading on Axially Loaded Piles,” Research Report to UNOCAL and MOBIL, Report 5594, Civil Engineering, Texas A&M University, 1988.
85. **KON, C.M., BRIAUD, J.L.**, “Analysis of the Behavior of 5 Axially Loaded Single Piles in Sand at Hunter’s Point,” Research Report 7065-1 to GeoResource Consultants, Civil Engineering, Texas A&M University, 1988.
86. **TUCKER, L.M., BRIAUD, J.L.**, “Analysis of the Behavior of a 5 Pile Group and a Single Pile in Sand at Hunter’s Point,” Research Report 7065-2 to GeoResource Consultants, Civil Engineering, Texas A&M University, 1988.
87. **GAN, K.C., BRIAUD, J.L.**, “Use of the Step Blade in Foundation Design,” Research Report 7032 to Iowa State University, Civil Engineering, Texas A&M University, 1988.
88. **LITTLE, R.L., BRIAUD, J.L.**, “Cyclic Horizontal Load Tests on 6 Piles in Sands at Houston Ship Channel,” Research Report 5640 to USAE Waterways Experiment Station, Civil Engineering, Texas A&M University, 1988.
89. **LITTLE, R.L., BRIAUD, J.L.**, “A Pressuremeter Method for Single Piles Subjected to Cyclic Lateral Loads in Sand,” Research Report 5357 to USAE Waterways Experiment Station, Civil Engineering, Texas A&M University, April 1987.
90. **BRIAUD, J.L., COSENTINO, P.J.**, “Pressuremeter Moduli for Airport Pavement Design,” Research Report 7035-2 to Federal Aviation Administration, Civil Engineering, Texas A&M University, February 1987.
91. **BRIAUD, J.L., TERRY, T.A., COSENTINO, P.J., TUCKER, L.M., LYTTON, R.L.**, “Influence of Stress, Strain, Creep and Cycles on Moduli from Preboring and Driven Pressuremeters,” Research Report 7035-1 to Federal Aviation Administration, Civil Engineering, Texas A&M University, September 1986.
92. **MAKARIM, C.A., BRIAUD, J.L.**, “Pressuremeter Method for Single Piles Subjected to Cyclic Lateral Loads in Overconsolidated Clay,” Research Report 5112-2 to various oil companies, Civil Engineering, Texas A&M University, December 1986.
93. **BRIAUD, J.L., MAKARIM, C.A., LITTLE, R.L., TUCKER, L.M.**, “Development of a Pressuremeter Method for Predicting the Behavior of Single Piles in Clay Subjected to Cyclic Lateral Load,” Research Report 5112-1, Civil Engineering, Texas A&M University, November 1985.
94. **BRIAUD, J.L., ANDERSON, J.S., TUCKER, L.M., COYLE, H.M.**, “Predicted versus Measured Vertical Response for 100 Piles,” Research Report 4981-1, Civil Engineering, Texas A&M University, May 1985.
95. **BRIAUD, J.L., PERDOMO, D., TUCKER, L.M.**, “Measured and Predicted Response of 100 Piles: Part 2,” Research Report 4981-2, Civil Engineering, Texas A&M University, November 1985.
96. **BRIAUD, J.L., TUCKER, L.M., COYLE, H.M.**, “LPC and COYLE: Two IBM-PC Microcomputer Programs for Axially Loaded Piles,” Research Report 4981-1, Civil Engineering, Texas A&M University, September 1985.
97. **BRIAUD, J.L.**, editor, “Microcomputer Program for Geotechnical Engineering,” Short Course Notes, August 1985.
98. **BRIAUD, J.L., TUCKER, L.M., OLSEN, R.S.**, “Pressuremeter, Cone Penetrometer and Foundation Design,” Short Course Notes, Volume 1 and 2, August 1985.
99. **BRIAUD, J.L., COSENTINO, P.J.**, “Airport Pavement Design: Review of Current Practice and Proposed Approach,” Research Report to the Federal Aviation Administration, April 1985.
100. **BRIAUD, J.L., FELIO, G.Y.**, “Influence of Cyclic Loading on Axially Loaded Piles in Clay,” Research Report to the American Petroleum Institute, April 1985.

101. **BRIAUD, J.L., NOUBANI, A., TUCKER, L.M.**, “Correlation between Pressuremeter Data and Other Parameters,” Research Report, Civil Engineering, Texas A&M University, 1985.
102. **BRIAUD, J.L., COSENTINO, P.J., TUCKER, L.M., TERRY, T.A.**, “Comparison between the TEXAM and the Menard Pressuremeter,” Research Report, Civil Engineering, Texas A&M University, 1985.
103. **BRIAUD, J.L., TERRY, T.A.**, “Geotechnical Parameters for the Two Texas A&M University Research Sites,” Research Report, Civil Engineering, Texas A&M University, 1985.
104. **BRIAUD, J.L., PORWOLL, H.P.**, “Negative Skin Friction of Keehi Interchange,” Research Report, Civil Engineering, Texas A&M University, College Station, Texas, December 1984.
105. **BRIAUD, J.L., LAWSON, W.D., TUCKER, L.M.**, “Wave Equation Analysis for Piles in Gravel,” Research Report, USAE, Waterways Experiment Station, September 1984.
106. **BRIAUD, J.L., TUCKER, L.M., DOUGLAS, B.J.**, “Pressuremeter, Cone Penetrometer and Foundation Design,” Short Course Notes, Volume 1 and 2, August 1984.
107. **BRIAUD, J.L., HUFF, L.G., TUCKER, L.M., COYLE, H.M.**, “Evaluation of In Situ Test Design Methods for Vertically Loaded H Piles at Lock & Dam No. 26 Replacement Site,” Research Report 4690, USAE, Waterways Experiment Station, July 1984.
108. **BRIAUD, J.L., BRASWELL, T.E.**, “Case History of Two Laterally Loaded Piles at Lock & Dam No. 26 Replacement Site,” Research Report, USAE, Waterways Experiment Station, June 1984.
109. **BRIAUD, J.L., RINER, K.B.**, “A Study of Cyclic Pressuremeter Testing for Offshore Applications,” Research Report, Fukada Geological Institute, Civil Engineering, Texas A&M University, March 1984.
110. **FELIO, G.Y., LYTTON, R.L., BRIAUD, J.L., DUNLAP, W.A., THOMPSON, L.J.**, “Geotechnical Problems in Open Pit Mining,” Research Report, Civil Engineering, Texas A&M University, November 1983.
111. **BRIAUD, J.L., GARLAND, E.E.**, “Influence of Loading Rate on Axially Loaded Piles,” Research Report, American Petroleum Institute, Civil Engineering, Texas A&M University, October 1983.
112. **BRIAUD, J.L., TUCKER, L.M., LYTTON, R.L., COYLE, H.M.**, “Behavior of Piles and Pile Groups to Cohesionless Soils,” FHWA Research Report No. RD-82/38, Texas Transportation Institute, Texas A&M University, October 1983.
113. **BRIAUD, J.L., PORWOLL, H.P.**, “Foundation Investigation at West Belt and Kimberly Lane by Pressuremeter Testing for the Texas Highway Department,” Civil Engineering, Texas A&M University, September 1983.
114. **BRIAUD, J.L., MERIWEATHER, M.**, “Pressuremeter Design of Retaining Structures,” Research Report 340-4, Texas Transportation Institute, Texas A&M University, September 1982.
115. **BRIAUD, J.L., TUCKER, L.M., SMITH, T.D.**, “Pressuremeter Design of Laterally Loaded Piles,” Research Report 340-3, Texas Transportation Institute, Texas A&M University, August 1983.
116. **BRIAUD, J.L., TUCKER, L.M., FELIO, G.Y.**, “Pressuremeter, Cone Penetrometer and Foundation Design,” Short Course Notes, Volume 1 and 2, August 1983.
117. **BRIAUD, J.L., ANDERSON, J.S.**, “Pressuremeter Design of Vertically Loaded Piles,” Research Report 340-2, Texas Transportation Institute, Texas A&M University, July 1983.
118. **BRIAUD, J.L., PORWOLL, H.P.**, “Foundation Investigation at Liberty and Mesa Road by Pressuremeter Testing for the Texas Highway Department,” Texas A&M University, July 1983.

119. **BRIAUD, J.L., JORDAN, G.**, “Pressuremeter Design of Shallow Foundations,” Research Report 340-1, Texas Transportation Institute, Civil Engineering, Texas A&M University, p. 78, June 1983.
120. **BRIAUD, J.L., KLING, S.**, “Basic Characteristics of Commercially Available Pressuremeters,” Research Report, Texas Transportation Institute, Texas A&M University, May 1983.
121. **BRIAUD, J.L., TUCKER, L.M., COYLE, H.M.**, “Pressuremeter, Cone Penetrometer and Foundation Design,” Short Course Notes, Volume 1 and 2, June 1982.
122. **BRIAUD, J.L.**, “Pressuremeter and Foundation Design,” Short Course Notes, Volume 1 and 2, May 1981.
123. **HUNG, J.T., BRIAUD, J.L., LYTTON, R.L.**, “Layer Equivalency Factors and Deformation Characteristics of Flexible Pavements,” Research Report 384-2A, Texas Transportation Institute, Texas A&M University, 1981.
124. **BRIAUD, J.L.**, “In Situ Tests to Measure Soil Strength and Soil Deformability for Offshore Engineering,” Research Report 1980-1, Center for Marine Geotechnical Engineering, Texas A&M University, 1980.
125. **BRIAUD, J.L.**, “The Pressuremeter Application to Pavement Design,” Ph.D. dissertation, Civil Engineering, University of Ottawa, Ottawa, Canada, 1979.
126. **BRIAUD, J.L.**, “Development of Peat Mechanics at UNB, 1971-73,” Master of Science thesis, Civil Engineering, University of New Brunswick, Fredericton, Canada, 1974.

## VIDEOTAPES

1. **BRIAUD, J.-L.**, editor, “Soil-Structure Interaction Under Extreme Loading Conditions”, by Thomas O’Rourke: The Thirteenth Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, October, 2004.
2. **BRIAUD, J.-L.**, editor, “Slurries in Geotechnical Engineering”, by Raymond Krizek: The Twelfth Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, October, 2004.
3. **BRIAUD, J.-L.**, editor, “Exploring the Limits of Unsaturated Soil mechanics: The Behavior of Coarse Granular Soil and Rockfill”, by Eduardo Alonso, The Eleventh Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, November, 2003.
4. **BRIAUD, J.-L.**, editor, “The World Trade Center: Construction, Destruction, and Reconstruction”, by Arnold Aronowitz, The Tenth Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, November, 2002.
5. **BRIAUD, J.-L.**, editor, “Geosynthetics for Soil Reinforcement”, by Robert Holtz, The Ninth Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, November, 2001.
6. **BRIAUD, J.-L.**, editor, “Foundation Settlement Analysis – Practice Versus Research”, by Harry Poulos, The Eighth Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, November, 2000.
7. **BRIAUD, J.-L.**, editor, “Factors of Safety and Reliability in Geotechnical Engineering”, by Mike Duncan, The Seventh Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, November, 1999.
8. **BRIAUD, J.-L.**, editor, “The Enigma of the Leaning Tower of Pisa,” by John B. Burland, The Sixth Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, December, 1998.
9. **BRIAUD, J.-L.**, editor, “The Selection of Soil Strength for a Stability Analysis,” by T. William Lambe, The Fifth Spencer J. Buchanan Lecture, Department of Civil Engineering,

- Texas A&M University, November 1997.
10. **BRIAUD, J.L.**, editor, “The Emergence of Unsaturated Soil Mechanics,” by Delwyn G. Fredlund, The Fourth Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, November 1996.
  11. **BRIAUD, J.L.**, editor, “The Role of Soil Mechanics in Environmental Geotechnics,” by James K. Mitchell, The Third Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, November 1995.
  12. **BRIAUD, J.L.**, editor, “Evolution of Safety Factors and Geotechnical Limit State Design,” by G. Geoffrey Meyerhof, The Second Spencer J. Buchanan Lecture, Department of Civil Engineering, Texas A&M University, October 1994.
  13. **BRIAUD, J.L.**, editor, “The Coming of Age of Soil Mechanics: 1920-1970,” by Ralph B. Peck, First Spencer J. Buchanan Lecture, Civil Engineering, Texas A&M University, October 1993.
  14. **BRIAUD, J.L.**, “Downdrag on Piles and the Use of Bitumen Coating,” 17 minutes, Civil Engineering, Texas A&M University, 1994.
  15. **BRIAUD, J.L.**, “The Pressuremeter,” 30 minutes, Civil Engineering, Texas A&M University, 1988.

## **PRESENTATIONS AND INVITED LECTURES**

1. Keynote Invited Lecture delivered in Paris, France (August 2005) on “The Preboring Pressuremeter: Some Contributions” at the International Conference on The Pressuremeter.
2. Keynote Invited Lecture at the Deep Foundations Institute Annual Congress in Chicago (September 2005) on “Bridge Scour”.
3. Chair of the Opening Session at the International Conference on Soil Mechanics and Geotechnical Engineering (September 2005).
4. Invited Lectures in Albuquerque (New Mexico), Irvine (California), Denver (Colorado).
5. Lectures in Austin (Texas), Boston (Massachusetts), Osaka (Japan), Montreal (Canada), Washington (DC).
6. Keynote Lecture delivered in Tunisia (February 2004) on “Bridge Scour Risk and Predictions” at the Conference on Risks in Civil Engineering.
7. Invited Lecture delivered in Singapore (November 2004) on “Bridge Scour Predictions” at the Second International Conference on Scour and Erosion.
8. Invited Lecture delivered in Guatemala (August 2004) on “Unsaturated Soils and Associated Foundation Problems” to the faculty and students of the Universidad Francisco Marroquín in Guatemala City
9. Lectures delivered in the USA during 2004 (Washington, Orlando, Arizona State University, Austin, Iowa, San Antonio, Auburn University) on various research results.
10. Invited Lecture delivered in Toronto, Canada (April 2003) to the Ontario Section of the Canadian Society of Geotechnical Engineers on Scour at Bridges.
11. Invited Lecture delivered in Porto, Portugal (June 2003) at the University of Minho on Scour at Bridges.
12. Invited Lecture delivered in Paris, France (November, 2003) at the International Symposium on Shallow Foundations.
13. Lecture delivered in Recife, Brasil (March 2002) at the International Conference on Unsaturated Soils Mechanics.
14. Invited Lecture delivered in Paris at the Ecole Nationale des Ponts et Chausees (September 2002) on the topic of “Some Recent Research in Soil Structure Interaction at Texas A&M University”.
15. Lecture delivered in Nice, France (September, 2002) at the International Conference on Geosynthetics on the topic of “Geosynthetics Reinforced Pile Supported Embankments”

16. Invited lecture at the National ASCE convention in Houston (October 2001) on the topic of “Predicted and Measured Movements of Footings on Expansive Soils”.
17. Invited lecture delivered in Istanbul (August 2001) at the International Conference on Soil Mechanics and Geotechnical Engineering on the topic of “USA Practice for Scour Prediction at Bridges”
18. Invited lectures delivered in the USA during 2001 (Las Vegas, San Antonio, Baltimore, Madison, Raleigh, Minneapolis).
19. Invited Lecture entitled “The National Geotechnical Experimentation Sites at Texas A&M University” presented at the ASCE Specialty Conference on Performance Confirmation of Constructed Geotechnical Facilities held at the University of Massachusetts April 9-12, 2000 in Amherst, Massachusetts.
20. Invited Lecture entitled “Predicting Scour at Bridge Piers” presented at the 18<sup>th</sup> Central Pennsylvania Geotechnical Conference held in Hershey, Pennsylvania on November 1-3, 2000.
21. Two Lectures entitled “The SRICOS Method: a Summary” and “The EFA Erosion Function Apparatus: an Overview” presented at the international Symposium on Scour of Foundations held in Melbourne Australia on November 19, 2000.
22. Lecture entitled “Scour at Bridge Piers” presented at the 53<sup>rd</sup> Canadian Geotechnical Conference held in Montreal, Canada, on October 15-18, 2000.
23. Lecture entitled “Measuring the Erodibility of Cohesive Soils” presented at the ASCE Water Resources Engineering and Water Resources Planning & Management Conference held July 30-August 2, 2000 in Minneapolis, Minnesota.
24. Lecture entitled “The VERT Wall: a new Concept in Retaining Walls” presented at the ASCE Houston Branch on May 16, 2000.
25. Invited Keynote Lecture at the 1999 Korean National Geotechnical Conference in Seoul, Korea, on the topic of “Scour Rate at Bridge Piers,” March 1999.
26. Special International Lecture, Japanese Geotechnical Society, in Tokyo, Japan on the topic of “Scour Rate at Bridge Piers,” March 1999.
27. The 1999 Ardaman Lecture, University of Florida, in Gainesville, Florida on the topic of “The Pressuremeter: Recent Developments,” February 1999.
28. The 1999 Special International Lecture at the Institute for Geotechnics and Materials in Beyrou, Lebanon in August 1999 on the topic of “Recent Developments in Retaining Walls”.
29. Invited Lecture sponsored by the Brazilian Geotechnical Society at the Institute of Civil Engineers in Sao Paulo, Brasil in May 1999 on the topic of “Load Settlement Method for Spread Footing Design”.
30. Predicting Scour Rate at Bridge Piers, Minnesota DOT, Minneapolis, Minnesota, June 1999.
31. Predicting Scour Rate at Bridge Piers, University of Auckland, Auckland, New Zealand, September 1999.
32. Predicting Scour Rate at Bridge Piers, ASCE National Conference, Seattle, August 1999.
33. Predicting Scour Rate at Bridge Piers, University of Michigan, Ann Arbor, Michigan, October 1999.
34. Predicting Scour Rate at Bridge Piers, Deep Foundation Institute, Detroit, Michigan, October 1999.
35. Earthquake Retrofitting of Bridges, MAE annual meeting, St Louis, Missouri, December 1999.
36. “Shrink Test for Predicting the Shrink - Swell Movement of Soils,” ASCE Texas Section meeting, Dallas, Texas, September 1998.
37. “SRICOS: prediction of Scour Rate in Cohesive Soils at Bridge Piers,” ASCE Texas Section meeting, Dallas, Texas, September 1998.

38. "PREMISS: Phase Relationship for Moisture Induced Swell in Soils," American Society of Civil Engineers - Texas Section, Fort Worth, October 1997 and American Society of Civil Engineers - Houston Branch, Houston, September 1997.
39. "Demonstration of the TAMU Shallow Foundation Data Base," International Conference on Soil Mechanics and Foundation Engineering, Hamburg, Germany, September 1997.
40. "Downdrag on Piles and Reduction with Bitumen," Invited Lecture American Society of Civil Engineers - Los Angeles Section, Los Angeles, June 1997.
41. "Beam Column Method for Tieback Walls," Invited Lecture University of California at Los Angeles, Los Angeles, June 1997.
42. "Pier Scour in Cohesive Soils," Texas Department of Transportation meeting, Arlington Texas, June 1997.
43. "Grouted Anchors Should Have Short Tendon Bond Length," Invited Lecture at the International Association of Foundation Drilling, Dallas, September 1996.
44. "Heave Equation and Data Base for Expansive Clays," American Society of Civil Engineers, Texas Section Meeting, September 1996.
45. "Downdrag on Piles and Reduction With Bitumen," Invited Lecture at the New York ASCE Section, New York, November 1995.
46. "In Situ Testing to Improve Foundation Design," Invited Lecture at the U.S. Army Corps of Engineers, Vicksburg, March 1995.
47. "Pressuremeter Method for Spread Footings on Sand," Invited Lecture, 4<sup>th</sup> International Symposium on the Pressuremeter, Montreal, Canada, May 1995.
48. "The National Geotechnical Experimentation Sites at Texas A&M University," Transportation Research Board, Washington, January 1995.
49. "Load Settlement Curve Method for Spread Footings on Sand," Invited Lecture, ASCE, Los Angeles Section, November 1994.
50. "Tests and Prediction Results for Five Large Spread Footings on Sand," Invited Lecture, ASCE Specialty Conference, Settlement >94, Texas A&M University, June 1994.
51. "Load Settlement Curve Method for Spread Footings on Sand," Invited Lecture, ASCE Specialty Conference, Settlement >94, Texas A&M University, June 1994.
52. "Research Needs in Shallow Foundations," Invited Presentation, Transportation Research Board, January 1993.
53. "Spread Footing Design and Performance," Invited Lecture, 10<sup>th</sup> Annual International Bridge Conference (FHWA Seminar), Pittsburg, June 1993.
54. "Driven Minicone for Driven Piles," ASCE Convention, Dallas, October 1993.
55. "Drilled and Grouted Piles," ASCE Convention, Dallas, October 1993.
56. Cross Canada Lecturer, 10 invited lectures across Canada from Victoria to Fredericton, on Downdrag on Piles, November 1992.
57. In Situ Testing in North America," NSF invited lecture in Shanghai, China, September 1992.
58. "Dynamic Testing of Foundations," MIT, Boston Society of Civil Engineers and University of Massachusetts, March 1992.
59. "Pressuremeter, Cone Penetrometer, Dilatometer for Geotechnical Engineering, National University of Mexico, Mexico City, February 1992.
60. "Downdrag on Bitumen Coated Piles," ASCE Convention, Orlando, October 1991.
61. "Downdrag on Bitumen Coated Piles," Deep Foundation Institute, Chicago, October 1991.
62. "Piles in Sand," American Petroleum Institute, Houston, September 1991.
63. "The Pressuremeter: Some Special Applications," ASCE, Geotechnical Congress, Boulder, June 1991.
64. "Downdrag on Pile Groups: A Design Method," ASCE, Geotechnical Congress, Boulder, June 1991.

65. "Pressuremeter, Cone Penetrometer, Dilatometer and Foundation Design," University of Carleton, Ottawa, Canada, June 1991.
66. "The Pressuremeter and Geotechnical Engineering," The Kersten Lecture, University of Minnesota, St. Paul, February 9, 1990.
67. "OTC Presentation on API RP2a and on Integrity of Drilled and Grouted Piles," Offshore Technology Conference, Houston, May 1990.
68. "The Pressuremeter and Geotechnical Engineering," ASCE, New York Section, Engineering Center, New York, December 12, 1989.
69. "The Pavement Pressuremeter," U.S. Army Cold Regions Laboratory Lecture, March 6, 1989.
70. "NEWNEG: A Microcomputer Program for Downdrag on Piles," Foundation Engineering Congress, June 1989.
71. "Nondestructive Testing of Foundations," Chairman of this TRB session, Washington, January 1991.
72. "The WAK Test to Check the Increase in Soil Stiffness Due to Dynamic Compaction," and Chairman of Session "Case Histories," Symposium on Geotechnics of Waste Fills - Theory and Practice, San Francisco, June 1990.
73. "Capacity of Vibrated Piles Compared to Driven Piles" and "Development of Coatings to Combat Negative Friction," Deep Foundation Institute, Baltimore, November 1989.
74. "Residual Stresses in Piles and Pile Groups," International Conference of Soil Mechanics and Foundation Engineering, Rio de Janeiro, August 1989.
75. "Pile Foundation Practice," Chairman of this session at the 1989 ASCE Foundation Engineering Congress, June 1989.
76. "Physical Modeling of Pile Foundation," Chairman of this session at the 1989 ASCE Foundation Engineering Congress, June 1989.
77. "The WAK Test" and "Downdrag on Bitumen Coated Piles," Transportation Research Board A2K03 meeting, January 1989.
78. "The Minipressuremeter for Designing Guardrail Posts," Transportation Research Board A2K04 meeting, January 1989.
79. "The WAK Test: Wave Activated Stiffness (k) Test or Impact Test to Find Spread Footing Stiffness," ASCE Texas Section, Annual Meeting, College Station, 1988.
80. Reporter and Chairman of a working group at the NSF sponsored workshop on National Sites for Geotechnical Experimentation.
81. "Graduate Studies at Texas A&M University" at engineering schools in France, January-May 1988:
  - Ecole Nationale des Ponts et Chaussees, Paris.
  - Ecole Speciale de Travaux Public, Paris.
  - Ecole Centrale, Paris.
  - Institut National de Sciences Appliquees, Lyon.
  - Ecole Centrale de Lyon, Lyon.
  - Ecole Nationale des Travaux Publics, Lyon.
  - Institut National des Sciences Appliquees, Toulouse.
82. "Deep Foundation Research at Texas A&M University," Comite Francais de Mecanique des Sols, Paris, May 1988.
83. "Cone Penetrometer Test and Piles in Stiff Clay," First International Symposium on Penetration Testing, Orlando, Florida, May 1988.
84. "Cone Penetrometer Test and Shallow Foundations," Chairman of this session at the First International Symposium on Penetration Testing, Orlando, Florida, May 1988.
85. "Cone Pressuremeter: Comparison Tests," First International Symposium on Penetration Testing, Orlando, Florida, May 1988.

86. Update on Deep Foundation Research,” USAE, Waterways Experiment Station, Vicksburg, June 1987.
87. “Horizontally Loaded Piles Next to a Trench,” ASCE National Convention, Atlantic City, April 1987. Also Chairman of Session.
88. “Pressuremeter and Drilled Shafts Bearing in Rock,” Texas Section ASCE meeting, Fort Worth, April 1987.
89. “Use of In Situ Test for Design of Drilled Shafts,” USAE, Waterways Experiment Station, Course on Expansive Clays, San Antonio, March 1987.
90. “Geotechnical Research at Texas A&M University,” National Science Foundation Workshop, Houston, March 1987.
91. “Results of a 5 Pile Group Load Test,” Transportation Research Board, January 1987.
92. “Measured and Predicted Response of 98 Piles,” Member of Panel, ASCE National meeting, Houston, October 1986.
93. Director and speaker at the Texas A&M University Short Course on Microcomputer Programs for Geotechnical Engineering, 1985, 1986, 1987, 1988.
94. Director and speaker at the Texas A&M University Short Course on Pile Driving Analysis and Drilled Shaft Integrity Testing, 1987, 1988.
95. “Factors of Safety and Precision of Some Pile Capacity Methods,” ASCE Convention, Boston, October 1986.
96. “Pressuremeter and Foundation Design,” University of California, Berkeley, February 1986.
97. “Current Geotechnical Research at Texas A&M University,” University of Texas, Austin, March 1986.
98. “Negative Skin Friction at the Keehi Interchange,” Hawaii Highway Department and University of Hawaii, May 1986.
99. Pressuremeter and Shallow Foundations,” Corps of Engineers, Hawaii District, May 1986.
100. “Analysis of Existing Cyclic Vertical Pile Load Tests in Clay,” Offshore Technology Conference, May 1986.
101. “Rate of Loading Effect on Vertical and Horizontal Behavior of Piles,” International Conference on Numerical Methods for Offshore Piling, France 1986.
102. “Pressuremeter and Foundation Design,” Invited state-of-the-art lecture, ASCE Specialty Conference, Blacksburg, Virginia, June 1986.
103. “Pressuremeter and Deep Foundation Design,” ASTM Symposium on the Pressuremeter and Its Marine Applications, Texas A&M University, College Station, Texas, May 1986.
104. “Pressuremeter Standard and Parameters,” ASTM Symposium on the Pressuremeter and Its Marine Applications, Texas A&M University, College Station, Texas, May 1986.
105. “Pressuremeter and Shallow Foundations on Sand,” ASCE Convention, Seattle, April 1986.
106. “Pressuremeter and Shallow Foundations on Stiff Clay,” Transportation Research Board meeting, Washington, January 1986.
107. “Recent Research on Foundation Engineering at Texas A&M University,” ASCE Geotechnical Engineering Committee on Shallow and Deep Foundations, Detroit, October 1985.
108. “Piles in Dense Sand: A Discussion,” International Conference on Soil Mechanics and Foundation Engineering, San Francisco, August 1986.
109. “In Situ Testing and Drilled Shaft Design,” U.S. Army Engineers, seminar in San Antonio, Texas, May 1985.
110. “Use of In Situ Testing in Foundation Engineering,” Southwestern Laboratories, Dallas, March 1985.
111. “Precision of Pile Capacity Design Methods,” Mississippi Highway Department, Jackson, Mississippi, February 1985.

112. "Residual Stresses in Piles and the Wave Equation," ASCE Convention, San Francisco, October 1984.
113. "Cyclic Rod Shear Tests in Clay," Texas Section, ASCE, Austin, Texas, March 1984.
114. "Behavior of Piles in Cohesionless Soils," United States Geological Survey, Washington, March 1984.
115. "Behavior of Piles in Cohesionless Soils," United States Department of Transportation, Washington, March 1984.
116. "Coefficient of Variation for In Situ Tests in Sand," ASCE Spring Convention, Atlanta, April 1984.
117. "Loading Rate Parameters for Piles in Clay," Offshore Technology Conference, May 1984.
118. "Cyclic Pressuremeter Tests for Cyclic Lateral Loads," Offshore Technology Conference, May 1984.
119. "Pile Foundations: Recent Developments," two lectures were given during a Canadian trip to University of New Brunswick and Nova Scotia Technical College.
120. "Rate of Loading Effect on Pile Capacity," American Petroleum Institute Annual meeting, New Orleans, February 1984.
121. "Cyclic Vertical Loads on Piles from Wave Action," American Petroleum Institute, Houston, January 1984.
122. "Pressuremeter Design of Laterally Loaded Piles," Symposium on the Pressuremeter and Its Marine Applications, Paris, May 19, 1982.
123. Offshore Technology Conference, Houston, May 1983.
124. International Symposium on In Situ Testing, Paris, May 1983.
125. Symposium on Laterally Loaded Piles, Kansas City, June 1983.
126. Texas ASCE meeting, Corpus Christi, March 1983.
127. "In Situ Tests and their Application in Offshore Design," ASCE Specialty Conference on Geotechnical Practice in Offshore Engineering, Austin, April 1983.
128. "In Situ Tests for Design of Drilled Shafts," presented at the USAE, Waterways Experiment Station, short course on Foundations on Expansive Clay Soils, Vicksburg, May 1983.
129. "Pile Foundations: Recent Developments," French Petroleum Institute, Paris, France, May 1983.
130. "Pile Foundations: Recent Developments," Laboratoire Central des Ponts de Chaussees, Paris, France, May 1983.
131. "Pile Foundations: Recent Developments," Centre de Recherche de L'ENPC, Paris, France, May 1983.
132. "Pile Foundations: Recent Developments," Norwegian Geotechnical Institute, Oslo, Norway, July 1983.
133. "Pile Foundations: Recent Developments," Det Norske Veritas, Oslo, Norway, July 1983.
134. "Pile Foundations: Recent Developments," Stressprobe, Glasgow, Scotland, July 1983.
135. "Pile Foundations: Recent Developments," Taylor Woodrow, London, England, July 1983.
136. "Pile Foundations: Recent Developments," Building Research Establishment, London, England, July 1983.
137. "Pile Foundations: Recent Developments," FUGRO B.V., Leidschendam, The Netherlands, July 1983.
138. "Pile Foundations: Recent Developments," Delft Laboratory, Delft, The Netherlands, July 1983.
139. "Driven Piles in Sand: Residual Stresses," University of Houston, Geotechnical Division Lecture Series, 1983.
140. "Rate of Loading Effect on Pile Capacity," ASCE annual meeting, Houston, October 1983.
141. "Pressuremeter Design of Highway Related Foundations," presented to Texas Highway Department, College Station, Texas, November 1982.

142. "Pressuremeter Design of Highway Related Foundations," Presented to Texas Highway Department, Waco, June 1983.
143. "Influence of Residual Stresses on Pile Capacity in Sands," presented at the TRB meeting to the Deep Foundation Committee, 1983.
144. "Methods for Analysis and Design of Offshore Pile Foundations," presented to ASCE Structures Congress, October 1982.
145. "Pressuremeter Design of Pile Foundations: State-of-the-Art," ASCE meeting, Texas Section, Fort Worth, March 1982.
146. Director and lecturer of short course, "The Pressuremeter, Cone Penetrometer, and Foundation Design," at Texas A&M University, 1981-1992 every year.
147. Director and lecturer of short course, "The Pressuremeter, Cone Penetrometer, and Foundation Design," at the U.S. Army Engineers, Waterways Experiment Station, 1981, 25 participants, Vicksburg, Mississippi.
148. Director and lecturer of short course, "The Pressuremeter, Cone Penetrometer, and Foundation Design," at Raba Kistner Consultants, San Antonio, 1981, 10 participants.

## RESEARCH PROJECTS

1. Simple Method for Estimating Scour: Sponsor: TxDOT, PI: Briaud, Co-PI: Chen, \$230,000, 2005-2007.
2. Environmentally Friendly Foundation Systems for Oil Drilling Platforms: Sponsor: Dpt of Energy, PI: Burnett, Co-PI: Briaud, Theodori. Budget for 2005-2006 = \$580,000 with \$100,000 going to Briaud and CE.
3. Design of Guard Rails at the Top of Mechanically Stabilized Earth Walls: NCHRP: \$500,000, 2004-2007, Co-PI: Blight and Briaud.
4. Abutment Scour in Cohesive Soils: NCHRP: \$400,000, 2004-2007. PI: Briaud, Co-PI: Chen and Chang, Students: Chen (PhD), Oh (PhD).
5. Deep Soil Mixing for Excavation Support: FHWA: \$56,000, 2003-2004, Co-PI: Biscontin and Briaud, Student: Rutherford (ME).
6. Briaud Compaction Device: Buchanan Chair and TTI: \$30,000, 2003-2004, PI: Briaud, Student: Li (PhD).
7. The Geogauge: FHWA, \$97,000, 2001-2003, Briaud is PI, Student: Jaynes (ME), Rhee (ME).
8. The Bump at the End of the Bridge: TxDOT, \$210,000, 2000-2001, Briaud is PI, Student: Seo (PhD).
9. Geosynthetics Reinforced Pile Supported Embankments: FHWA, \$40,000, 2000-2002, Aubeny is PI, Briaud is Co-PI, Student: Li (PhD)
10. Retrofit of Bridge Foundations for Earthquake Resistance: NSF through MAE, \$180,000, 1998-2001, Briaud is PI, Hueste and Aubeny are Co-Pis, Students: Cho, Gameros (ME), Buchanan (MS), Fratinardo (ME).
11. Meander Migration and Stream Degradation: TXDOT, \$450,000, 1999-2001, Briaud is PI, Chen and Edge are Co-Pis, Students: Wang(PhD), Park(PhD), Chung(ME), Park (ME), Shah (ME).
12. Scour Rate of Cohesive Soils: NCHRP, \$350,000, 1999-2002, Briaud is PI, Chen is Co-PI, Students: Nurtjahyo (Ph.D.), Li (PhD), Cao (ME).
13. Full Scale VERT Wall Experiment and Analysis: Geo-Con, \$45,000, 1998-2000, Briaud is PI, Students: Lee (M), Mun (M).
14. Mitigating Swelling Clays by ESS 3000?: Kinley/ESS Inc., \$145,000, 1998-2001, Briaud is PI, Students: Chowdhury (M), Rahman (ME), Hungerford (ME), May (ME).
15. Spread Footings, Influence of Depth of Embedment: FHWA, \$100,000, 1997-1999, Briaud is PI, Students: Barfknecht (M/Ph.D.), Cuellar (M).

16. Long Term Behavior of Tieback Walls: Texas DOT, \$350,000. 1995-1998, Briaud is PI, Students: Soto (M), Suroor (M), Lim (Ph.D.).
17. Scour Rate for Cohesive Soils: Texas DOT, \$665,000, 1994-1999, Briaud is PI, Students: Perugu (Ph.D.), Gudavalli (Ph.D.), Wei (Ph.D.), Philogene (M), Kwak (Ph.D.), Han (ME).
18. Drilled and Grouted Piles: Fundamental Behavior, NSF, \$70,000, 1994-1997, Briaud, P.I., Student: Baroi (Ph.D.).
19. The Bump at the End of the Bridge: NCHRP, \$15,000, 1994-1996, Briaud PI.
20. Laterally Loaded Piles: \$25,000, 1994-1995, Briaud PI, Student: Donthireddy (M).
21. Feasibility Study for Scour Facility: Texas DOT, \$80,000, 1993-1994, Briaud & Ting Co-PI, Students: Perugu (Ph.D.), Rao (Ph.D.).
22. Houses on Expansive Clay: Buchanan Professorship, \$5000/year, 1993-?, Briaud PI, Students: Hoffman, Posey (M), Swoboda (M).
23. The TEAM Method in Foundation Engineering, FHWA, \$25,000, 1993-1995, Briaud PI, Student: Goparaju (Ph.D.).
24. Bioremediation and the EPA Data Base: Buchanan Professorship, \$5000/year, 1993-1996, Briaud PI, Students: Katta (M), Kouchner (M), McAdoo (M).
25. FEM Simulation for Soil Nailing, FHWA, \$25,000, 1993-1996, Briaud PI, Student: Lim (Ph.D.).
26. Development of the LATWAK Test: FHWA, \$25,000, 1993-1995, Briaud PI, Student: Ballouz (Ph.D.).
27. Behavior of Spread Footings on Sand, FHWA/Geotest, \$650,000, 1992-1996, Briaud is P.I., Student: Nasr (Ph.D.), Jeanjean (Ph.D.), Gibbens (M), Hossain (Ph.D.).
28. U.S. National Site for Geotechnical Experimentation, NSF/FHWA, \$210,000, 1992-1996, Briaud is P.I., Students: Marcontell (M), Tao (M), Jennings (M), Simon (M).
29. Baked in Place Casings: NSF, \$10,000, 1992-1993, Briaud is P.I. Student: Boursin (M).
30. Pipe Piles in Sands: NSF/API, \$30,000, 1991, Briaud is P.I. Student: Hossain (Ph.D.).
31. Data Base for Shallow Foundations: FHWA, \$7500, 1991, Briaud is P.I. Student: Nasr (Ph.D.).
32. Data Base for Pile Foundations: FHWA, \$23,000, 1991, Briaud is P.I. Students: Swoboda (M), Goparaju (Ph.D.), Graveron (U).
33. Study of Gas Hydrates: NSF \$150,000, 1989, Briaud is P.I. Students: Lim (Ph.D.), Chaouch (Ph.D.), Jeanjean (M).
34. UNOCAL New Drilled and Grouted Pile Concept: UNOCAL, \$35,000, 1991, Briaud is P.I. Student: Chaouch (M).
35. Guidelines for the Dilatometer Test: PSC, \$22,500, 1990, Briaud is P.I. Student: Miran (M).
36. Dynamic Testing of Drilled Shafts: FHWA/ADSC, \$250,000, 1990, Briaud is P.I. Students: Ballouz (Ph.D.), Nasr (M).
37. Permanent Ground Anchor Walls: Schnabel/FHWA, \$600,000, 1990, Briaud is P.I. Students: Kim (Ph.D.), Chung (M), Powers (M).
38. DataBase for Shallow Foundation: FHWA, \$20,000, 1990, Briaud is P.I. Student: Abubakar (M).
39. DataBase for Deep Foundation: FHWA, \$20,000, 1990, Briaud is P.I. Student: Goparaju (Ph.D.).
40. Development of the WAK Test: TEES, \$5,000, 1990, Briaud is P.I. Students: Liu, Maxwell (M).
41. Expert Systems for Foundations: AMOCO, \$17,000, 1990, Briaud is P.I.
42. Guidelines for the Cone Penetrometer Test: PSC, \$22,500, 1989, Briaud is P.I. Student: Miran (M).

43. Support for Drilled and Grouted Pile Project: Various oil companies, \$35,000, 1988, Briaud is P.I. Student: Kubena (M).
44. Downdrag on Bitumen Coated Piles: National Cooperative Highway Research Program (NCHRP), \$1,000,000, 1988-1996, Briaud is P.I. Students: Bush (M), Viswanathan (M), Jeong (Ph.D.), Quraishi (M), Al Gurjia (M).
45. Drilled and Grouted Piles: Capacity and Inspection, USAE-WES and Minerals Management Service, \$125,000, 1987, Briaud is P.I. Student: Dupin (M).
46. Guidelines for Pressuremeter Test: Performance and Design, FHWA, \$48,000, 1987, Briaud is P.I.
47. An IBM-PC Program for Pile Response to Various Rate of Loading, Oil companies, \$25,000, 1987, Briaud is P.I. Assistant: Tucker.
48. Cyclic Horizontal Pile Load Tests in Sand at Houston Ship Channel, USAE-WES, \$20,000, 1987, Briaud is P.I. Student: Little (M).
49. Lock & Dam No. 26 In situ Testing and Pile Load Tests Report, USAE-WES, \$10,000, 1986, Briaud is P.I. Assistant: Tucker.
50. Analysis of Hunter's Point Pile Load Tests in Sands, Federal Highway Administration, \$44,000, 1986, Briaud is P.I. Student: Kon (M).
51. Development of the Step Bladed Vane, Federal Highway Administration, \$65,000, 1985, Briaud is P.I. Student: Gan (M).
52. In Situ Modulus Determination, Federal Aviation Administration, \$110,000, 1984, Briaud is P.I. Students: Terry (M), Cosentino (Ph.D.).
53. Development of a Pressuremeter Method for the Design of Piles in Sands Subjected to Cyclic Lateral Loads, USAE-WES, \$22,000, 1984, Briaud is P.I. Student: Little (M).
54. Development of a Pressuremeter Method for the Design of Piles in Clay Subjected to Cyclic Loads, 4 Oil companies, \$20,000, 1984, Briaud is P.I. Student: Makarim (Ph.D.).
55. Development of an Improved Method for Pile Design, Mississippi Highway Department, \$97,000, 1983, Briaud is P.I. Students: Perdomo (M), Anderson (M).
56. Static and Dynamic Capacity of Piles in Cohesive Soils, American Petroleum Institute, Phase 2, \$50,000, 1983, Briaud is P.I. Student: Felio (Ph.D.).
57. Development of an Offshore Pressuremeter, Fukada Geological Institute, Tokyo, \$18,000, 1982, Briaud is P.I. Student: Riner (M).
58. Static and Dynamic Capacity of Piles in Cohesive Soils, American Petroleum Institute, Phase 1, \$50,000, 1982, Briaud is P.I. Student: Garland (M).
59. Pressuremeter Design of Highway Related Foundations, Texas Highway Department, \$30,000, 1982, Briaud is P.I. Students: Meriweather (M), Jordan, Anderson.
60. Behavior of Piles and Pile Groups in Cohesionless Soils, Federal Highway Administration, \$72,000, 1981, Briaud is P.I. Student: Tucker (M).
61. Geotechnical Problems in Open Pit Mining, Center for Energy and Mineral Resources, \$18,000, 1981, Briaud is P.I. Student: Felio (Ph.D.).
62. Evaluation of In Situ Tests Design Methods for Piles in Sands at Lock and Dam No. 26, USAE-WES, \$76,000, 1981, Briaud is P.I. Student: Huff (M), Lawson (M), Braswell.
63. Laterally Loaded Piles and the Pressuremeter, National Science Foundation, \$66,000, 1981, Briaud is P.I. Student: Smith (Ph.D.).
64. Also participated in Flexible Pavement Design and DataBase, (Sponsor: Texas State Department of Highways and Public Transportation.) Student: Hung (M).
65. Also participated in Characterization of Soft Sediment Behavior, (Sponsor: United States Geological Survey.)

## **CONSULTING REPORTS (EXAMPLES)**

1. Maryland SHA, Woodrow Wilson Bridge, Washington D.C.

2. New York DOT, Wantagh Parkway Bridges, NY.
3. URS, Arizona Dams, Erosion Analysis. Phoenix, AZ.
4. Parsons Brinkerhoff, Superconducting Supercollider, Dallas.
5. LeRoy, Crandall and Associates, H-3 Viaduct, Honolulu.
6. Parsons Brinkerhoff, H-3 Tunnel, Honolulu.
7. STS Consultants, Superconducting Supercollider, Dallas.
8. BME, Inc., TMPA Powerline, College Station.
9. UNOCAL, New Foundation Concept, Confidential.
10. Corps of Engineers, District of St. Louis, December 1987, Axial Response of 3 Vibratory and 3 Impact Driven H Piles in Sand.
11. GeoResource Consultants, Inc., October 1987, Pressuremeter Tests and Cone Penetrometer Tests at Century Freeway in Los Angeles.
12. Ohio Department of Transportation, July 1987, Demonstration and Initiation on the Use of the Texam Pressuremeter.
13. City Public Service, August 1987, Pressuremeter Tests for the Design of Power Line Transmission Towers in San Antonio.
14. Geofon, April 1987, Pressuremeter Tests for Arizona Power Transmission Line Design, Tucson, Arizona.
15. McClelland Engineers, November 1986, Pressuremeter Tests and Analysis for Texas Utilities Plant Extension, Fairfield, Texas.
16. McBride-Ratcliff, October 1986, Pressuremeter Tests to Obtain  $K_0$  for Tunnel Construction in Houston.
17. Federal Highway Administration, 1986, Pressuremeter Tests for Bridge Abutments on Shallow Footings in the Boston Area.
18. Conoco, Inc., Spring 1986, Confidential.
19. Texas State Highway Department, Spring 1986, In Situ Tests and Pile Predictions at Highway 146 and Ship Channel Crossing in Houston.
20. GeoResource Consultants, Fall 1985, Analysis of Pile Load Tests.
21. Testing Unlimited, Inc., October 1985, Analysis of a Tanker Impact against a Docking Facility in Freeport.
22. Raba-Kistner Consultants, Inc., August 1985, Special Pressuremeter Tests for Exposition Plaza Tower in San Antonio.
23. City Public Service/Raba-Kistner Consultants, Inc., May and October 1985, Foundation Testing and Analysis for Corner Power Line Towers for the City of San Antonio.
24. Conoco, Inc./Earth Technology Corporation, September 1985, Perform First Offshore Pressuremeter Tests in Gulf of Mexico.
25. Amoco/Kenneth Tand & Associates, December 1984, Feasibility Study for Use of Shallow Foundations at Texas City Power Plant.
26. Colorado River Authority/Raba-Kistner Consultants, November 1984, Large Retaining Wall Analysis for the Canyon Dam Hydroelectric Project.
27. Earth Technology Corporation/Salt River Project, July 1984, Special Pressuremeter Tests for Power Line Foundations.
28. Raba-Kistner Consultants, May 1984, Special Pressuremeter Tests for Central Business Park complex in San Antonio.
29. Houston Light & Power/McClelland Engineers, January 1984, Foundation Evaluation for Large Power Plant Smoke Stack.
30. Exxon Production Research, Houston, Confidential, January-December 1983.
31. U.S. Army Engineers, Waterways Experiment Station, December 1983, Analysis of Mat Foundation for Red River Army Depot.

32. Amoco/Kenneth Tand & Associates, November 1983, Prediction of Shallow Footing Response to Vertical Loading.
33. Gulf States Utilities/Southwestern Laboratories, October 1983, Special Pressuremeter Tests for Power Line Foundation Analysis.
34. Corps of Engineers, Vicksburg District, October 1983, Prediction of Pile Response at Lock & Dam 2 Project, Alexandria, Louisiana.
35. McClelland Engineers, Inc., La Grange, Texas, November 1982, Foundation Design of the Fayetteville Coal Power Plant using Pressuremeter Results.
36. Raba-Kistner Consultants, San Antonio, October 1982, Foundation Evaluation for the First International Plaza by Pressuremeter Testing.
37. John Mathes and Associates, St. Louis, September 1982, Foundation Design for the St. Louis Hilton using Pressuremeter Results.
38. Los Angeles Department of Water and Power, Utah, Nevada and California, July 1982, Powerline Foundation Design by Pressuremeter Testing.
39. U.S. Navy, China Lake, California, June 1982, Foundation Evaluation of the Supersonic Research Track at Naval Base.
40. U.S. Army Engineers, Waterways Experiment Station, San Antonio, May 1982, Pressuremeter Prediction for Lateral and Vertical Shaft Behavior.
41. Murillo Engineering, Houston, 1981, Repair Strategy for Oil Tank.

## **EXTRACURRICULAR ACTIVITIES**

### **Tennis**

- No. 1 in USTA Texas Section in 1999: over 50 division.
- Played no. 4 for the State of Texas team at the over 45 Nationals in Myrtle Beach, North-Carolina, October 1995.
- Champion, Texas Olympic Games (Pepsi Games of Texas) Open Category, 1988.
- Champion, Texas A&M Spring Open Tournament, 1987.
- Champion, Province of New-Brunswick closed tournament, Canada, Fall 1975.

### **Soccer**

- Left Wing, Team Champion, College Station City League, 1986-87, over 30 Division.

### **Rugby**

- Standoff and Captain, University of New-Brunswick team, Champion of Eastern Provinces, Canada, 1975.

### **Piano**

- Classical and Jazz, Amateur level.
- Played at the Cambridge Club, Avenue Wagram near the Arc de Triomphe in Paris, 1970.