

University of Sheffield
Department of Civil and Structural Engineering
Summary CV

Adrian FL Hyde BSc PhD MICE CEng
Professor of Geotechnical Engineering
Chairman of Geotechnical Engineering Group

Member of Geotechnique editorial board (2005-2008)

Elected to EPSRC College from 2006

Member TC35 Micro-geomechanics. (2000 onwards) Technical Committee of the International Society for Soil Mechanics and Geotechnical Engineering

Visiting Professor Università degli studi di Trento, Italy 2000-2004

Visiting Professor Yamaguchi University, Japan since 1997

Visiting Professor Ibaraki University, Japan 2007

Member "Collegio dei Docenti" for Doctoral Research Programmes in Structural Engineering and Architecture for consortium of Italian universities: Trento, Brescia, Padova, Udine, IUAV Venezia, since 2005

- **Main research themes:**

- cyclic loading of clays and silts
- liquefaction and seismic stability
- micromechanics and soil crushability
- modelling of composite geomaterials
- rapid load testing of piled foundations
- geotechnics applied to archaeological resources

- **Recent Grants:**

- 1999 Rapid load testing of piles, £175,000, EPSRC
- 2001 Geotechnics applied to archaeological resources, £12,903, English Heritage
- 2001 Full scale rapid load pile test, £61,223, EPSRC
- 2003 A stochastic model for damage to archaeological artefacts due to new construction work, £299,652 EPSRC
- 2007 Effect of rate of shearing on resistance in fine grained soils, \$15,000, IPA

- **Publications:** 34 international journal papers; 74 conference papers,

- **Invited national and international lectures and seminars:** 4 public lectures, 23 invited lectures, 18 seminars

- **International advisor:** Advisor to 6 Japanese universities and Japanese Accreditation Board on Engineering Education (JABEE) on quality audits of teaching and research.

- **External Examiner (PhD Research):** Universities of Cambridge; Durham; Trinity College, Dublin; Nottingham; London UCL; Western Australia; TU Delft, Loughborough, Sunderland and Sheffield (prior to 1997).

- **External Examiner (Taught courses):** MSc Civil Engineering Design and Management Programme Suite, Nottingham Trent University (from 2005)

- **Reviewer:** Geotechnique; ASCE Journal of Geotechnical and Geoenvironmental Engineering; ICE journal Engineering Sustainability; Soils and Foundations, Journal of the Japanese Geotechnical Society; ASTM Geotechnical Testing Journal; Granular Matter; Geomechanics and Geoenvironmental Engineering; Archaeometry, Studies in Conservation, EPSRC grant proposals.

- **PhD Students supervised to completion:** 18

- **PhD Students current:** 3

MEMBERSHIP OF PROFESSIONAL INSTITUTIONS AND SOCIETIES

Institution of Civil Engineers, MICE, CEng. (20.1.76)
British Geotechnical Association
International Society for Soil Mechanics and Foundation Engineering

PRIZE

1976 British Geotechnical Society Prize awarded for paper on "The plastic deformation of a silty clay under creep and repeated loading"

LANGUAGES

Italian - Native speaker
French - Fluent
Japanese - Fluent
German – Some
Spanish – Some

TEACHING (summary)

As a lecturer at Loughborough and Senior Lecturer at Bradford I was the subject leader in Geotechnics and was responsible for all courses in Geotechnics as well as contributing to cognate subjects.

At Sheffield I am Chairman of the Geotechnics group and have contributed to the teaching of courses from Foundation to MEng and MSc levels. I am currently SMR for 70 credits:

CIV251 Geotechnics 3 (10 credits)

CIV455 Deep foundations Design Project (20 Credits)

CIV402 European project (30 Credits)

As a visiting professor at Trento University I teach an intensive graduate course on seismic soil mechanics.

Japanese Language

I have taught the following courses:

1992-1994 Japanese Language course, University of Bradford, Adult Education programme.;

1994/95 Japanese Language module BSc in Women's Studies Technology and Management.;

1996/97 Japanese Language course, University of Bradford, Language Unit;

1998-present: My parallel text translation of a paper on soil crushability used as an exercise on MA in Advanced Japanese Studies, University of Sheffield;

2000 Supervisor and internal examiner MA dissertation "Titles of Research Articles in Civil Engineering: A Comparison of English and Japanese" for Advanced Japanese Studies, School of East Asian Studies, University of Sheffield.

ADMINISTRATION (summary)

I have had a wide range of experience of administrative duties such as year tutor, admissions tutor, chair of course reorganisation working parties, elected member on Faculty Boards of Studies, Senate and Senate working parties and chairing Engineering Faculty sub-committees and working parties.

My recent administrative duties include:

- Chairman of the Geotechnics Research Group

- Departmental overseas student recruitment co-ordinator
- ERASMUS/SOCRATES tutor
- International exchanges co-ordinator
- Course tutor for MEng in Civil Engineering with a Modern Language
- Teaching Cttee
- Chair of working party and organiser of Engineering Faculty Year 11 Summer School
- Departmental equal opportunities and disabilities co-ordinator
- Harassment Network contact
- SRDS reviewer

RESEARCH THEMES

Introduction

My main research themes are:

- micromechanics and soil crushability
- cyclic loading of clays and silts
- liquefaction and seismic stability
- modelling of composite geomaterials
- rapid load testing of piled foundations
- geotechnics applied to archaeological resources

Since 1988 I have been working on research programmes jointly with three Japanese national Universities, Ibaraki, Yamaguchi Kyushu. In that time I have spent more than two and a half years in total in Japan planning research programmes, analysing data and writing papers. The development of the joint research has been a dynamic process in which generic learning in one field has been applied to emergent areas or problems in another. The major joint research themes on which we have collaborated are:

- the influence of soil crushability on fundamental soil mechanics
- pile bearing capacity in crushable soils
- seismic liquefaction and post-earthquake settlements of silts, crushable decomposed granite fills and volcanic soils
- cyclic degradation of clays and silts
- seismic resistance of sustainable composite geomaterials

Since arriving at Sheffield in 1997 the themes described above have been continuously developed and new multidisciplinary projects joint with archaeology have attracted major funding from English Heritage and EPSRC.

Cyclic loading of clays and silts

Research has been carried out at Sheffield and Ibaraki Universities to characterize liquefaction, post cyclic re-compression settlements, stiffness and strengths of low plasticity silts which are commonly used as fill materials for coastal reclamation and man-made islands.

Micromechanics and soil crushability

A joint research programme with Yamaguchi University has been studying the characteristics of a range of crushable sands such as Shirasu, a volcanic soil, Masado, a decomposed granite soil, and various carbonate sands. Shortly after the 1995 an earthquake which caused severe

damage to the Kobe port facilities located on artificial islands backfilled with Masado we submitted a paper to Geotechnique on liquefaction testing of Masado.

At a more fundamental level work relating particle strength to soil matrix compressibility has provided verifying measurements to support theoretical developments at Cambridge. More recently energy dissipation in soil due to crushing has been studied in a joint research programme with Trento University in Italy.

Modelling of composite fill materials

Research is needed on advanced ground-improvement technologies using recycled materials, leading to potential cost savings and sustainable solutions for reclaimed land areas. A research programme is underway to model the liquefaction potential of composite geomaterials incorporating problematic materials such as recycled tyre chips. This work is being carried out with Japanese universities.

Pile bearing capacity in crushable soils

The end bearing capacity of piles in crushable soils is important for the design of foundations in soils as diverse as offshore skeletal carbonate sediments and highly weathered decomposed granite or residual soils. Using data from model pile test results combined with triaxial compression tests, model pile end bearing capacity has been investigated using spherical cavity expansion theory. In 2002 I was an external examiner at the University of Cambridge for a PhD thesis related to this topic.

Rapid Load Pile Testing

The Statnamic test involves the measurement of the load-displacement behaviour of a pile during the application of a controlled load over a period of about 100 ms. This test potentially represents an economical alternative to conventional static testing, however a particular concern is the effect of the rate of loading on the measured shear strength of clays. An instrumented model pile has been tested in a large calibration chamber together with triaxial element tests and a full scale pile test in glacial clay to develop new analytical methods for rapid load pile tests in clays.

The two EPSRC projects relating to this were rated as tending to outstanding and were selected for a *Best of British Research Projects* showcase presentation at the 2nd Annual BGA Conference 2004.

Geotechnics applied to archaeological resources

A new multi-disciplinary research group has been formed with the Archaeology Research School at Sheffield which has generated more than £0.5m funding from English Heritage, Environment Agency and EPSRC. Archaeologists require an indication of the probability of damage occurring to archaeological remains in redevelopment projects in order to make critical decisions relating to insitu preservation. Model artefacts produced by the Department of Archaeology and Prehistory are being seeded into laboratory element test samples subjected to construction stress paths with the aim of producing guidelines useable by engineers and archaeologists.

A proposal is under preparation to monitor a £600M development scheme within York city centre. Due to concern about a wealth of sensitive deposits from pre-Roman times onwards, developers, planners and researchers have come together to make the site available as a research facility to measure, predict and follow sub-surface geochemical changes and impacts during planning, construction and subsequent use.

In addition a new research network comprising the Universities of Sheffield, Rome, Barcelona, Trento, Cairo, Batna (Algeria) and LCPC (Paris) has been formed and two EU

funding bids have been submitted for research on the preservation of archaeological resources in the Mediterranean area.

RESEARCH AWARDS AND GRANTS

Date	Awarding Body	Title	Amount
1979	CASE award with British Gypsum Ltd	"Anhydrite stabilised PFA"	
1982	CASE award with McClelland Engineers Ltd	"Cyclic loading of clays"	
1985	SERC	"Fundamental engineering properties of carbonate sands"	£43,700
1985	McClelland Engineers Ltd.	"Fundamental engineering properties of carbonate sands"	£3000
1985	BP Ltd	"Fundamental engineering properties of carbonate sands"	£3000
1991	Royal Society	Joint Research project, Japan	£7,800
1995	British Council	Joint research project, Yamaguchi, Cambridge and Bradford Universities on crushable soils	£7,500
1997	EU Science and Technology Grant Programme in Japan	Senior Visiting Scientist, Japan	¥1,754,000 (£10,000)
1998	TNO Building Construction Research, Netherlands	Rate effects in clays	£10,500
1998	Berminghammer Foundation Equipment Canada	Rate effects in clays	£9,750
1999	ELE Ltd	Computer controlled cyclic loading equipment	£48,000
1999	Royal Society	Japan-UK research project on soil crushability: Sheffield, Cambridge, and Yamaguchi Universities.	£10,450
1999	EPSRC	Rapid load testing of piles	£175,000
2001	English Heritage	Geotechnics applied to archaeological resources	£12,903
2001	EPSRC Grant	Full scale rapid load pile test	£61,223
2003	EPSRC Grant	A stochastic model for damage to archaeological artefacts due to new construction work	£299,652
2007	IPA	Effect of rate of shearing on resistance in fine grained soils	\$15,000

TRAVEL GRANTS

1985 Royal Society grant, £333, Euromech Colloquium, Bucharest, Romania.

1988 Royal Society grant, £478, International Conference on Calcareous Sediments, Perth, Australia.

1988 Fellowship of Engineering, £400, Symposium on Theory and Practise of Earth Reinforcement, Japan.
 1988 Royal Society grant, £3600, Study visit and lecture tour, Japan.
 1989 Yamaguchi University and Nishinippon Institute of Technology, £800.
 1990 Fellowship of Engineering, £500, Japan.
 1998 Royal Academy of Engineering, £1000, Japan
 1998 Royal Society, £1200, Conference Grant, Japan
 2000 Royal Academy of Engineering, £800, Conference Grant, Japan
 2002 British Council £1000 for expenses for sponsored lecture, Shizuoka University, Japan

SUPERVISION OF PhD STUDENTS

S.J. Ward	1979-83	The stability of a silty clay under repeated loading
J.J. Burke	1979-83	A non-linear finite element analysis of soil deformation
G.M. Conn	1982-86	Two way repeated loading of a silty clay
C.R. Golightly	1985-89	Engineering properties of carbonate sands
A. Okorie	1986-90	Cyclic loading of silt
P. Head	1986-89	Chemically grouted piles in calcareous sand
I. Davey-Wilson	1986-89	A knowledge based system in geotechnical engineering
S. Salleh	1988-92	Liquefaction of carbonate sands
C.M.B.H. Kasri	1991-95	Cyclic loading of compacted clay
Aminatun Marto	1992- 96	Volumetric compression of silt under periodic loading
Azman Amin	1992- 94	Malaysian Black clay (External PhD supervisor with UTM, Johor, Malaysia)
Gholam Moradi	1995-1998	Plastic and non-plastic silts
Sarah Robinson	1995-1999	Foundations in crushable soils
Toru Higuchi	1996-2001	Liquefaction of non-plastic silts
Michael Brown	1999-2004	Rapid load testing of piles
Juan Balderas Meca	2000-2004	Rate effects in clays related to rapid pile load tests
Hanh Nguyen	2003-2005	Rapid load testing of piles
Panu	2005-2009	Liquefaction of composite materials
Promptthangkoon		
Haslinda Nahazanan	2006-	Engineering properties of mudstones
Lucinda Copley	2006	Weathering of Mercia Mudstones
Nor Azizi Yusoff	2007-	Effect of rate of shearing in clays

CORRELATORE TESI DI LAUREA (Trento University, Italy)

Fabrizio Conforti	2003	Analisi sperimentale delle frantumazione di un materiale granulare sottoposto a sforzi normali e tangenziali.
Annarita Pozzato	2005	Influenza della frantumazione dei grani sulla compressibilità dei terreni granulari: indagini sperimentali e relazioni costitutive

EXTERNAL EXAMINER (RESEARCH)

M. Kasim	MPhil	1984	University of Sheffield (prior to appointment in Sheffield)
M.K. Mohamed	MPhil	1984	University of Sheffield (prior to appointment in Sheffield)
F. Hammoud	MPhil	1987	University of Sheffield (prior to appointment in Sheffield)
B. Tahar	MPhil	1987	University of Sheffield (prior to appointment in Sheffield)
B. Kazeram	PhD	1988	Sunderland Polytechnic

A.R. Hajj	PhD	1990	University of Sheffield (prior to appointment in Sheffield)
T.H. Salman	PhD	1994	University of Sheffield (prior to appointment in Sheffield)
P.R. Fleming	PhD	1998	University of Loughborough
A. Adams	PhD	1999	University of Durham
M.A. Ismail	PhD	2000	University of Western Australia
E. Cosgrove	PhD	2001	Trinity College, Dublin
D. White	PhD	2002	University of Cambridge
S. Acharya	PhD	2004	University of Western Australia
Wee Loon Lim	PhD	2004	University of Nottingham
F. Altuhafi	PhD	2007	University College, London
Y. Zhao	PhD	2008	University of Cambridge
N.Q. Huy	PhD	2008	Technische Universiteit, Delft, Netherlands

Internal Examiner

M.Mollamahmutoglu	PhD	1992	University of Bradford
Y. Muto	PhD	1996	University of Bradford
V. Prakash	PhD	1997	University of Sheffield
A. Key	PhD	1998	University of Sheffield
F. Jeremias	PhD	2000	University of Sheffield
R. Nagano	MA	2001	University of Sheffield (East Asian Studies)
T. Bennet	PhD	2001	University of Sheffield
P.Fair	PhD	2003	University of Sheffield
K. Emmett	PhD	2007	University of Sheffield
B. Ogunmakin	PhD	2008	University of Sheffield

EXTERNAL EXAMINER (TAUGHT COURSES)

2006-2009

Nottingham Trent University

MSc Civil Engineering Design and Management Programme Suite.

This consists of five MScs:

MSc Civil Engineering Design & Management

MSc Geotechnical Engineering Design & Management

MSc Environmental Engineering Design & Management

MSc Structural Renovation

MSc Transportation Engineering Design & Management

OTHER PROFESSIONAL ACTIVITIES

Reviewer

Geotechnique;

ASCE Journal of Geotechnical and Geoenvironmental Engineering

ICE Journal Engineering Sustainability

Canadian Geotechnical Journal

Soils and Foundations, Journal of the Japanese Geotechnical Society;

ASTM Geotechnical Testing Journal

Granular Matter

Geomechanics and Geoengineering

EPSRC grant proposals.

Archaeometry

Studies in Conservation, The International Institute for Conservation of Historic and Artistic Works

International Journal Editorial Board

Geotechnique 2005-2007

EPSRC College

Elected to EPSRC College (from 2006)

International Committee Membership

Member TC35 Micro-geomechanics. Technical Committee of the International Society for Soil Mechanics and Geotechnical Engineering

External Assessor for Chair Appointment

University of Dundee, Chair in Geotechnics, June 2008

Visiting Professorships

Visiting Professor at the Regional Collaborative Research Centre, Yamaguchi University, Japan

Visiting Professor, Department of Civil Engineering, Yamaguchi University, Japan

Visiting Professor, Dipartimento di Ingegneria Meccanica e Strutturale, Università degli Studi di Trento, Italy

Visiting Professor, Ibaraki University, Japan

Member of Collegio dei Docenti

2005 Appointed to "Collegio dei Docenti" for Doctoral Research Programmes in Structural Engineering and Architecture for consortium of Italian universities: Trento, Brescia, Padova, Udine, IUAV Venezia.

International Seminar Organiser

First International Seminar on Soil Crushability, University of Sheffield, 14th-16th September 1997.

Senior Visiting Scientist

March 1st – May 31st 1997 European Union Senior Visiting Scientist, Yamaguchi and Kyushu Universities, Japan

Other International Research Engagements

Malaysia 1992-95

British Council external advisor on the setting up of a PhD research programme at the Department of Civil Engineering at Universiti Teknologi Malaysia (UTM), Johor. This was part of the Malaysian CICHE programme.

China 1990

Established research links with Tongji University, Shanghai where a joint study of "Low strain shear moduli of carbonate sands" was completed.

INVITED PRESENTATIONS AND CONFERENCE ROLES

Public Lectures

- 1995 Public Seminar Programme, Yamaguchi University, Japan
Invited lecture: Foundations in Carbonate Sands.
- 1997 Yamaguchi University, Japan, May 20th
Visiting Professor, Inaugural Public Lecture: Soil Crushability (In Japanese)
- 1997 Regional Collaborative Research Centre, Faculty of Engineering, Yamaguchi University, Japan, May 21st *Public lecture: Settlement and stability of soil structures and foundations (In Japanese)*
- 2004 East Midlands Geotechnical Group, with IStructE, Oct 4th, *Rapid Load Testing of Piles*

Invited Lectures

- 1988 University of Tokyo, Institute of Industrial Science
Cyclic Loading of Clays.
- 1988 Kyoto University, Disaster Prevention Research Institute
Dynamic Behaviour of Clays.
- 1988 Osaka University
Cyclic Loading of Clays and Silts.
- 1988 Yamaguchi University, Faculty of Engineering
Some Fundamental Properties of Carbonate Sands and Their Application to Piled Foundation Design.
Plastic Deformation, Pore Pressures and Stability of a Silty Clay under Cyclic Loading.
- 1988 Saga University, Department of Civil Engineering
Cyclic loading of clays.
Some properties of sands.
- 1988 Kyushu University
Cyclic loading of a Silty Clay.
Fundamental behaviour of carbonate sand and its application to offshore piling design.
- 1991 Universiti Teknologi Malaysia, Johor
Visiting Lecturer
- 1993 Kyoto University, Masters programme in Geotechnical Engineering
Invited lecture: Spherical cavity expansion theory applied to foundations in crushable soils.
- 1994 Meeting of Japanese Society for Soil Mechanics and Foundation Engineering, Nagoya, Japan
Invited lecture: Crushable sands (A journey from the tropics to the missing parameter in critical state soil mechanics?)
- 1996 NKK Steel Corporation, Kawasaki, Japan
Lecture: Piled foundations in crushable soils (presented partly in Japanese)
- 1996 Takenaka Construction Company, Research and Development Institute, Chiba, Japan
Invited lecture: Liquefaction of Silty Soil
- 1997 Kyushu University, Japan, April 25th *Invited lecture: Settlement and stability of soil structures and foundations (In Japanese)*
- 1997 Ibaraki University, Japan, May 1st *Invited lectures:*
Soil Crushability (In Japanese),
Settlement and stability of soil structures and foundations (In Japanese)
- 2000 Ibaraki University, Japan. April 11th *Invited lecture: The importance of Soil Mechanics for the Civil Engineer (In Japanese)*

- 2000 Yamaguchi University, Faculty of Engineering, Japan, July 4th, *University Audits for Quality of Teaching and Research (In English and Japanese)*
- 2001 Ibaraki University, Faculty Of Engineering, Japan, April, *University Audits for Quality of Teaching and Research (In English and Japanese)*
- 2001 Ryukyu University, Okinawa, Japan, November 6th, British Council lecture, *University Audits for Quality of Teaching and Research-the UK experience*
- 2002 Ibaraki University, Japan, February 6th, *University Lecture, University Audits for Quality of Teaching and Research – the UK experience. (In Japanese)*
- 2002 Kyushu University, Japan, April 4th, *University Lecture, University Audits for Quality of Teaching and Research – the UK experience. (In Japanese)*
- 2002 Kanazawa University, Japan, April 5th, *University Lecture, University Audits for Quality of Teaching and Research – the UK experience. (In Japanese)*
- 2002 Politecnico di Bari, Italy, 30th May, *Invited lecture, Liquefaction of sands (In Italian)*
- 2002 Shizuoka University Japan, 23rd Oct, British Council sponsored lecture: *University Audits for Quality of Teaching and Research – the UK experience. (In Japanese)*
- 2003 Ibaraki University, Japan, Oct 15th
Lecture: Sustainable ground engineering (In English and Japanese)
- 2007 Ibaraki University, Japan, 20th March, *Intensive course on Sustainability*

Conference roles

- 1988 IS Kyushu Int. Symp. On Theory and Practice of Earth Reinforcement
Director of Group Discussion – Session 2 Shallow and Deep Foundations
- 1989 Int. Seminar on Dynamic Behaviour of Clays, Sands and Gravels, Kitakyushu, Japan
Session Chairman
- 1994 International Symposium on Pre-failure Characteristics of Geomaterials, Hokkaido, Japan, *Session panelist*
- 1994 Regional Conference on Geotechnical Engineering, Geotropika94, Malacca
Keynote Lecturer
- 1997 Session Chairman and organiser *First International Seminar on Soil Crushability*, University of Sheffield, 14th-16th September 1997.
- 1998 Session Chairman, *2nd International Statnamic Seminar, Tokyo, November.*
- 1999 Special Lecture: Yield and Soil Crushability, *2nd International Workshop on Soil Crushability, July 15-16, Yamaguchi University, Japan.*
- 1999 Session Chairman, *2nd International Workshop on Soil Crushability, July 15-16, Yamaguchi University, Japan.*
- 2000 IS Yokohama 2000 International Symposium on Coastal Geotechnical Engineering in Practice, 20-22 September. *Session 3 Discussion leader "Use of geo-materials from solid wastes in coastal areas"*
- 2002 IW-LGM 2002 International Workshop on Lightweight Geo-Materials, March 26th-27th, *Panel Discussion Leader on Cost, environment and earthquake mitigation*
- 2004 *2nd Annual BGA Conference, 9th June, Best of British Research Projects: showcase presentation, Rapid Load Testing of Piles*
- 2004 *Engineering Design in Engineering Education JABEE (Japanese Accreditation Board for Engineering Education) Symposium/Workshop December 4-5, 2004, Tokyo, Guest Speaker and Discussion Panelist (in Japanese)*

- 2004 Rileggere L'Antico, *1st International Conference on Architecture of the Imperial Age: Construction methods, techniques and comparative models*. Member of scientific committee and session chairman. (In Italian)
- 2004 University College London *GM3 From Micro to macro UK 2nd travelling workshop UCL 20-21 December* Invited Presentation on Grain Crushing and Session Chairman
- 2005 *16th International Conference on Soil Mechanics and Geotechnical Engineering*, Osaka, Chairman, *Session PDS 4b Earthquake Related Problems*.
- 2005 *3rd International Young Geotechnical Engineers Conference*. Osaka. Chairman (2 sessions)
- 2006 *TC35 International Symposium on Geomechanics and Geotechnics of Particulate Media* 12 - 14 September 2006, Ube, Yamaguchi, JAPAN
Member of Technical Committee
- 2006 *TC35 International Symposium on Geomechanics and Geotechnics of Particulate Media* 12 - 14 September 2006, Yamaguchi, JAPAN, Chairman (2 Sessions)
- 2007 *IW-TDGM International Workshop on Tire Derived GeoMaterials*, 23-24 March, Ports and Airports Research Institute (PARI) Kurihama, Japan, Chairman of Panel Discussion Session
- 2007 *3rd International Student Conference at Ibaraki University, ISCIU3* under auspices of ICAS (Institute for Global Change Adaptation Science), 6-7 October, Mito, Japan, General Reporter
- 2008 *2nd BGA International Conference on Foundations- ICOF 2008 24-27 June 2008, Dundee, Scotland*. Member of Organising Committee
- 2008 *2nd Yamaguchi University – Korean Institute of Construction Technology – Chonbuk University (YU-KICT-CBNU) Joint Workshop*, 27th March 2008, Special lecture “Rapid Load Testing of Piles”
- 2008 *2nd BGA International Conference on Foundations- ICOF 2008 24-27 June 2008*, Chair of Session: “Axially Loaded Piles”

National Research Seminars

- 1999 University of Oxford, Department of Engineering Science, Oct 22nd *Seminar: Yield and soil crushability*
- 2001 University of Bradford, Feb 22nd *Seminar: Yield and soil crushability*
- 2003 University of Cambridge, Department of Engineering, Nov 21st *Rapid load testing of piles*
- 2004 University of Nottingham, Department of Civil Engineering, 23rd June, *Rapid load testing of piles*
- 2004 Bullen Consultants, Darlington, 6th April, *Rapid Load Testing of Piles*
- 2005 English Heritage, York, In-Situ Preservation Workshop, *Geotechnics and geochemistry applied to archaeology*
- 2005 University of Bradford, November 10th *Energy and crushing*,

International Research Seminars

- 1991 Yamaguchi University, Japan, Research Seminar
Special lecture: Offshore foundations in carbonate sands
- 1994 Yamaguchi University, Japan, Research Seminar
Invited lecture: Behaviour of crushable sands
- 1997 Japanese Geotechnical Society National Committee on Crushable soils, Quarterly Meeting, April 4th, Kyushu University
Invited Lecture and seminar: Soil Crushability (In Japanese)

- 1998 Ibaraki University, Japan, Oct 26th
Research seminar: Statistical approach to soil crushability
- 2000 Nagoya Institute of Technology, Japan, April 12th.
Invited lecture and seminar : Yield and soil crushability (In Japanese)
- 2000 Universita degli studii di Trento, Italy, 7 March, *Seminar: Engineering applications of soil crushability (In Italian)*
- 2002 Kanazawa University, Japan, 5 April, *Seminar: Rapid Load Testing of Piles*
- 2002 Politecnico di Bari, Italy, 30th May, *Invited seminar, Yield and soil crushability (In Italian)*
- 2002 Universita degli Studi di Trento, Italy, 3rd June, *Invited Seminar, Rapid Load Testing of Piles (In Italian)*
- 2004 Delft University Oct. 27th *Workshop on Quasi Static Pile testing*, GeoDelft, Netherlands, Invited presentation "Rapid load testing of piles"
- 2004 Ibaraki University, Japan, Dec. 6th, *Invited Seminars, Rapid Load Testing of Piles & Energy dissipation due to Particle Crushing*

PUBLICATIONS**Journal papers**

1. Brown, S.F. and Hyde, A.F.L. (1975) "The significance of cyclic confining stress in repeated load triaxial testing of granular materials", Transportation Research Record 537, Washington, pp 49-58.
2. Brown, S.F., Lashine, A.K.F. and Hyde, A.F.L. (1975) "Repeated load triaxial testing of a silty clay" Geotechnique Vol 25, No 1, pp 95-114
3. Hyde, A.F.L. and Brown S.F. (1976) "The plastic deformation of a silty clay under creep and repeated loading", Geotechnique Vol 26, No 1, pp 173-184.
4. Hyde, A.F.L. (1984) "Some preliminary data on cement-PFA-anhydrite mixes", Magazine of Concrete Research, Vol 36, No 128, September, pp 174-180.
5. Hyde, A.F.L. and Ward, S.J. (1985) "A pore pressure and stability model for a silty clay under repeated loading" Geotechnique, Vol 35, No2, pp 113-125.
6. Hyde, A.F.L. and Ward, S.J. (1986) "The effect of cyclic loading on the undrained shear strength of a silty clay", Marine Geotechnology, Vol 6, No 3, pp 299-314
7. Hyde, A.F.L. and Conn G.M. (1987) "Cyclic triaxial tests on remoulded clays" ASCE Journal of Geotechnical Engineering, Vol 113 No 6 pp 665-667.
8. Hyde, A.F.L. and Burke, J.J. (1988) "Undrained creep deformation of a strip load on clay" in Lecture Notes in Earth Sciences 14, Cristescu, N., Ene, H.I., (eds) Springer-Verlag, pp 119-149.
9. Yasufuku, N., Murata, H., Hyodo, M., and Hyde, A.F.L. (1991) "A stress-strain relationship for anisotropically consolidated sand over a wide stress region", Soils and Foundations, Journal of the Japanese Society for Soil Mechanics and Foundation Engineering, V31, No. 4, pp75-92.
10. Yasuhara, K., Hirao, K., and Hyde, A.F.L. (1992) "Effects of cyclic loading on strength and compressibility of clay" Soils and Foundations, Journal of the Japanese Society for Soil Mechanics and Foundation Engineering, V32 No1 pp100-116.
11. Hyde, A.F.L., Yasuhara K., and Hirao, K. (1993) "Stability criteria for a marine clay under one-way cyclic loading" ASCE, Journal of Geotechnical Engineering, Vol. 119, No 11, pp 1771-1789.
12. Yasufuku, N. and Hyde, A.F.L. (1995) "Pile end-bearing capacity in crushable sands" Geotechnique V45 No. 4 pp. 663-676
13. Hyodo, M., Aramaki, N., Itoh, M., and Hyde, A.F.L. (1996) "Cyclic strength and deformation of crushable carbonate sand" Soil Dynamics and Earthquake Engineering, Vol 15, No 5, pp 331-336

14. Yasuhara K. and Hyde A.F.L. (1997) "A method for estimating post-cyclic undrained secant modulus of clays" *ASCE, Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 123, No. 3, pp 204-211.
15. Hyodo, M., Hyde, A.F.L., and Aramaki, N. (1998) "Liquefaction of crushable soils" *Geotechnique* **48**, No. 4, 527-543.
16. Yasuhara, K., Hyde, A.F.L., Toyota, N., Murakami, S., Yokokawa, S. (1998) "Cyclic and post-cyclic stiffness and degradation of a plastic silt with initial sustained shear stress" *Geotechnique Symposium in Print, Pre-failure Deformation of Geomaterials, ISBN 072 77 26 420, Thomas Telford Ltd, Part II* pp373-382
17. Nakata, Y., Hyde, A.F.L., Hyodo, M. and Murata, H., (1999) "A probabilistic approach to sand crushing in the triaxial test" *Geotechnique* **49**, No. 5, 567 - 583
18. Shiono, K. , Muto, Y., Knight, D.W. and Hyde, A.F.L, (1999), " Energy losses due to secondary flow and turbulence in meandering channel for overbank flows", *Journal of Hydraulics Research*, International Association for Hydraulic Research, Vol. 37, pp641-664.
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