Proceedings of the Conference on recent developments in tubular joints technology held on 4 and 5 October 1988 at Anúgraha Conference Centre Englefield Green Near Egham, Surrey, UK

Conference organised by UEG Offshore Research Co-sponsored by Steel Construction Institute
PROGRAMME, DAY 1, 4 October 1988

Session 1  Development and advances since OTJ'85

0845 - 1000  Registration and coffee
1000 - 1010  Opening and Chairman’s introduction: Mr A.G. Reynolds, BP International Ltd
1010 - 1040  The present state-of-the-art - technical developments and advances since OTJ’ 85
              Mr M. Lalani, Steel Construction Institute
1040 - 1055  Discussion

Session 2  Design and analysis

1055 - 1115  Development of SCF formulae and generalised influence functions for use in
              fatigue analysis
              Dr M. Efthymiou, SIPM, The Hague
1115 - 1140  Coffee
1140 - 1200  Implications of new data on the fatigue performance of tubular joints
              Dr J.V. Sharp and Dr T.W. Thorpe, Marine Technology Support Unit, Harwell
1200 - 1245  Developments in ultimate strength technology for simple tubular joints
1245 - 1300  Discussion
              Dr N. Zettlemoyer, Exxon Production Research Co. Inc., Houston, Texas
1300 - 1420  Lunch

Session 2 - continued

1420 - 1430  Chairman’s introduction:
              Dr J. Wardenier, Delft University of Technology and Chairman of IIW
              Sub-Commission IIW - XV - E on Tubular Structures
1430 - 1500  Extruded nodes - a new concept
              Dr M.B. Gibstein, Veritas Offshore Technology and Services A/S
1500 - 1530  A test programme on the static ultimate strength of welded fabricated tubular
              joints
              Mr S.Y.A.Ma, Wimpey offshore Engineers and Constructors Ltd
1530 - 1555  Tea
1555 - 1625  Ultimate limit state of tubular framed structures
              Dr J.K. Ward and Mr B Izzudin, Steel Construction Institute
1625 - 1655  A case history of tubular joint design - the Eider project
              Mr A.C. Scott, John Brown Engineers and Constructors
1655 - 1730  Discussion
PROGRAMME, DAY 2, 5 October 1988
Session 3  Materials and fracture mechanics

0830 - 0900  Coffee
0900 - 0910  Chairman’s introduction:
Dr C. J. Billington, Director, Steel Construction Institute
0910 - 0935  Fatigue properties of a higher strength quenched and tempered steel
Mr P. H. Bateson, British Steel, Swinden Laboratories,
Mr B. Lian, Statoil, Norway, and Mr C. Lindley, British Steel, Swinden Laboratories
0935 - 1000  Inter-run fatigue cracking in welded tubular joints
Dr J. G. Wylde, The Welding Institute
1000 - 1025  Cast nodes - state of the art and recent applications
Mr M. Baerheim and Mr P. Fjellheim, Statoil, Norway
1025 - 1050  Coffee
1050 - 1115  Fatigue damage and residual fatigue life
Dr T. W. Thorpe, Marine Technology Support Unit, Harwell
1115 - 1140  Non destructive evaluation of tubular welded joints
Dr S. Dharmavasan and Professor W. D. Dover, University College, London
1140 - 1220  Discussion
1220 - 1350  Lunch

Session 4  Inspection and repair

1350 - 1355  Chairman’s introduction:
Mr R. K. Venables, General Manager for Business Development, CIRIA/UEG
1355 - 1420  A rational approach to fatigue design and inspection for welded structures
Mr P. L. Busby and Mr P. Carr, Atkins Oil and Gas Engineering Ltd
1420 - 1445  Strengthening and repair of tubular joints - minimising requirements and maximising benefits
Mr E. P. Shuttleworth, Billington Osborne-Moss Engineering Ltd
1445 - 1500  Discussion
1500 - 1520  Tea

Session 5  The way ahead

1520 - 1535  Chairman’s statement on current status of design codes and guidelines
Dr N. Zettlemoyer, Exxon Production Research Co. Inc., Houston, Texas
1535 - 1640  Panel discussion on rationalisation and codification of tubular joint design practices
Experts from Netherlands, Norway, UK and USA