

International Conference on Fitness- for-Service

FITNET 2006

FRACTURE – FATIGUE – CREEP – CORROSION

17-19 May 2006, SHELL Global Solutions, Amsterdam, The Netherlands

17th May 2006

10.00 – 11:50	CEN Workshop 22	
12.00 – 13.00	Registration	
13.00 -13.10	Welcome R Koers, SHELL Global Solutions	
13.10 -15.00	SESSION 1: Developments in Fitness-for-Service Procedures Chair: RA Ainsworth, British Energy, UK	
	FITNET FFS Procedure Overview M Koçak, GKSS Research Center, GERMANY	04
	Recent Developments and Improvements in API 579 D Osage, Equity Engineering Group, M. Prager, MPC and PVRC, USA	01
	Current Status of Fitness-for-Service Rules in Japan K Hasegawa, HITACHI Ltd., H. Kobayashi, YOKOHAMA NATIONAL UNIVERSITY, JAPAN	02
	Recent Works on Developing Structural Acceptance Criteria for Local Wall Thinning of Nuclear Piping within Korea and Japan Y-J Kim, KOREA UNIVERSITY, KOREA et al.	03
15.00 – 15.30	COFFEE BREAK	
15.30 - 18.00	SESSION 2: Features of the FITNET FFS Procedure - I Chair: F. Minami, OSAKA UNIVERSITY, JAPAN	
	Compilation of Case Studies in FITNET FFS Procedure A. Laukkanen, P Nevasmaa, K Wallin, VTT INDUSTRIAL SYSTEMS, FINLAND	31
	Compilation of Stress Intensity Factor and Limit Load Solutions for the FITNET Procedure I Hadley, TWI, UK and S Szavai, Bay Zoltan Foundation, HUNGARY	22
	The Education and Training Content of FITNET FG Solana, S Cicero, JA Alvarez, UNIVERSITY OF CANTABRIA, SPAIN	24
	Application of FITNET Procedure for Failure Analysis of Medical Components FG Solana, S Cicero, JA Alvarez, L Sanchez, UNIVERSITY OF CANTABRIA, SPAIN et al.	16
	Case Studies for Fatigue Module of FITNET FFS Procedure M Huther, Bureau Veritas, FRANCE, M Vormwald, TU Darmstadt, GERMANY	14

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8.00 – 11.00	<b style="color: red;">SESSION 3: FRACTURE Chair: Y-J Kim, KOREA UNIVERSITY, KOREA	
	Method of Constraint Loss Correction of CTOD Fracture Toughness for Fracture Assessment of Steel Components	33
	F.Minami, OSAKA UNIVERSITY, JAPAN et al.	
	The Fracture Module of the FITNET FFS Procedure	05
	S Webster, Y. Tkach, CORUS, UK	
	The Treatment of Constraint in the FITNET FFS Procedure	09
	S Cicero, UNIVERSITY OF CANTABRIA, SPAIN, RA Ainsworth, BRITISH ENERGY, UK, Y Tkach, CORUS, UK	
	Best Practice Fracture Toughness Estimates Based on the Charpy-V Impact Test	11
	K Wallin, P Nevasmaa, A Laukkanen, VTT INDUSTRIAL SYS., FINLAND	
10.30 – 11.00	<b style="color: red;">COFFEE BREAK	
11.00 – 12.30	<b style="color: red;">SESSION 4: FATIGUE Chair: P Haagenen, UNIVERSITY OF TRONDHEIM, NORWAY	
	The Fatigue Module of the FITNET FFS Procedure	06
	JJ Janosch, CATERPILLAR, FRANCE, N Taylor, JRC, THE NETHERLANDS	
	A FITNET Procedure for FFS-Based Fatigue Evaluation using the Master S-N Curve Approach	34
	P Dong, BATELLE, USA	
	Fatigue and Reliability in Automotive Design	29
	HP Lieurade, CETIM, FRANCE, JJ Thomas, PSA PEUGEOT-CITROEN, FRANCE, A Blgnonnet, ab consulting, FRANCE	
12.30 – 13.30	<b style="color: red;">LUNCH BREAK	

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13.30 – 16.00	SESSION 5: CREEP Chair: HP Lieurade, CETIM, FRANCE	
	An Overview of the Creep Module of the FITNET FFS Procedure RA Ainsworth, BRITISH ENERGY, UK et al.	07
	Sources of Scatter in Creep Crack Growth Testing and the Impact on Plant Assessments B Dogan, GKSS, GERMANY, J Korous, BISAFE, CZECH REPUBLIC, F Mueller, TU DARMSTADT, GERMANY	10
	Application of the FITNET FFS Procedure Creep Module for the Assessment of a Pressure Vessel G Canale, GL Cosso, ISTITUTO ITALIANO DELLA SALDATURA, ITALY	26
	Creep-fatigue Crack Growth S.R. Holdsworth, ALSTOM, UK	27
15.30 – 16.00	COFFEE BREAK	
16.00 – 17.30	SESSION 6: Features of the FITNET FFS Procedure - II Chair: JJ Janosch, CATERPILLAR, FRANCE	
	Fatigue Strength Improvement Methods for Welded Details P Haagensen, UNIVERSITY OF TRONDHEIM, NORWAY	25
	Flaw Interaction Rules in FITNET FFS Procedure W De Waele, UNIVERSITY OF GENT, BELGIUM, K Hasegawa, HITACHI Ltd., JAPAN	23
	Limit Loads for Circumferential Cracked Pipe Bends under In-Plane Bending Y-J Kim, C-S Oh, Y-I Kim, KOREA UNIV., KOREA, C-Y Park, KOREA Electric, KOREA	20
	Treatment of Secondary Stresses in FITNET FFS Procedure A Stacey, HSE, UK	17
	Special Lecture	
17.30 – 18.00	European Technology Platform on Industrial Safety (ETPIS) G Katalagarianakis, European Commission, BELGIUM	
18.00	CONFERENCE DINNER : The dinner will take place in a boat. Participants will take the boat directly after the special lecture.	

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8.30 – 10.30	SESSION 7: FRACTURE - II Chair: S Webster, CORUS, UK	
	A Strain-Based Approach to Fracture Assessment of Pipelines E Østby, SINTEF Materials and Chemistry, NORWAY, E Torselletti, Snamprogetti, ITALY, E Levold, STATOIL ASA, NORWAY	35
	The Criticality of ECA on Girth Welds of Offshore Pipelines R Bruschi, Snamprogetti, ITALY et al.	36
	Loading Rate Effects on Fracture Toughness of Steels E Lucon, SCK.CEN, BELGIUM, I Rokach, KIELCE University, POLAND	12
	Validation of Fracture Assessment Procedures Through Full-Scale Testing I Hadley and P Moore, TWI, UK	18
	Treatment of Structural Welds using FITNET FFS Procedure M Koçak, GKSS, GERMANY, S Webster, CORUS, UK, A Motarjemi, TWI, UK	13
10.30 – 11.00	COFFEE BREAK	
11.00 – 12.30	SESSION 8: VALIDATIONS Chair: K Wallin, VTT, Finland	
	Validation of the FITNET Analysis Procedures for the Assessment of ARIANE 5 Thin-Walled Components I Varfolomeyev, L. Hodulak, D. Siegele, Fraunhofer IWM, M. Windisch, MT Aerospace, GERMANY	32
	Fracture Analysis of Thin-Walled Laser Beam and Friction Stir Welded Al-alloys using FITNET FFS Procedure E Seib, M Kocak, V Uz, GKSS Reserach Center, GERMANY	19
	Assessment of Tubes for Manufacturing of Hydraulic Cylinders using FITNET FFS Procedure S Beretta, M Cristea, POLITECNICO DI MILANO, ITALY, H Desimone, TENARIS Dalmine, ITALY, H Ernst, TENARIS Siderca, ITALY	38
12.30 – 13.30	LUNCH BREAK	

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13.30 – 16.00	SESSION 9: CORROSION and FITNET Features Chair: I Hadley, TWI, UK	
	The Corrosion Module of the FITNET FFS Procedure R Koers, SHELL GLOBAL SOLUTIONS, THE NETHERLANDS, A Turnbull, NPL, UK	08
	Validation of FITNET Corrosion Assessment Procedure I Partridge, TWI, UK	21
	The Assessment of Local Thinned Areas D. Ritchie and R. Koers, SHELL GLOBAL SOLUTIONS, The Netherlands.	28
	CEN Workshop Agreement WA 24: Risk-Based Inspection & Maintenance (RIMAP) D Balos, A Jovanovic, MPA University of Stuttgart, GERMANY	15
	Case Studies for Fracture Assessment using FITNET FFS Software N Gubelj, University of Maribor, SLOVENIA, M Huther, BUREAU VERITAS, FRANCE, M. Kocak, GKSS, GERMANY, T Valh, WALCH, SLOVENIA	37
16.00	END OF CONFERENCE	