

09:00-09:50	Conference Opening Plenary Lecture: P. J. Withers (p.9) Residual stress – fatigue crack interactions by high resolution synchrotron X-ray stress field mapping Chair L. Edwards, Co-ordinator: L. Edwards		
09:50-10:10	Morning Tea		
	CONFERENCE ROOM A	CONFERENCE ROOM B	CONFERENCE ROOM C
10:10-10:40	Chair 1: J. Epp, Chair 2: J. Ruiz-Hervias Co-ordinator: O. Muránsky Keynote: C.N. Tome (p.18) The role of local stress fields in the constitutive response of aggregates	Chair 1: T. Holden, Chair 2: Y.Sano Co-ordinator: K. Toppler Keynote: M.E. Fitzpatrick (p.14) The role of residual stress in laser shock peening	Chair 1: M.C. Smith, Chair 2: F. Lefebvre Co-ordinator: M. Saleh Keynote: M.R. Hill (p.15) Engineering residual stress in aerospace forgings
	Invited: C. Braham (p.19) Study of stress partitioning in a 0.68 wt%C pearlitic steel using high energy X-ray synchrotron radiation	Invited: K. Langer (p.26) Advances in residual stress engineering for fatigue life enhancement of laser peened airframe structure	Invited: K. Walker (p.32) Evaluation of residual stress effects in aft pressure ring frame of a Royal Australian Air Force P-3C maritime patrol aircraft
10:40-11:00	A. Baczmański (p.45) The role of intergranular stresses in plastic deformation of polycrystalline materials studied using diffraction and self-consistent model	C. Polese (p.55) Laser Shock Peening of Aluminium Alloys for Airframe Structures	F. Bridier (p.70) Influence of residual stresses on low cycle fatigue behavior of high strength steels for naval applications
11:00-11:20	J.R. Santisteban (p.35) Residual stresses of zirconium hydride precipitates in Zr2.5%Nb pressure tubes measured by synchrotron XRD	T. Sano (p. 158) Femtosecond laser peening of laser welded 2024 aluminium alloy	Z. Chen (p.183) Residual Stresses and Fatigue Performance of Inconel 718 after Milling and Shot Peening
11:20-11:40	M. Sano (p.139) Dislocation Density of GlidCop with Compressive Strain applied at High Temperature	S. Coratella (p.166) Residual stress distribution in laser shock peened samples with non-uniform geometries	Y. Nadot (p.182) Fatigue crack propagation in complex Residual Stress field generated by surface anomalies in a Nickel based superalloy at high temperature
11:40-12:00	Lunch		
12:00-13:20	Chair 1: E. Kingston, Chair 2: Z. Feng Co-ordinator: O. Muránsky Invited: J. Francis (p.22) Design and manufacture of industrially representative weld mock-ups for the quantification of residual stresses in a nuclear pressure vessel steel	Chair 1: M. Klaus, Chair 2: C. Polese Co-ordinator: P. Bendeich M. Gelineau (p.129) Residual stress field prediction in shot peened mechanical parts with complex geometries	Chair 1: K. Xu, Chair 2: K. Walker Co-ordinator: M. Saleh H.K. Kim (p.88) Measurement of highly non-uniform residual stress fields in thin plates
	J. Dixneit (p.106) Influence of heat control on residual stresses in low transformation temperature (LTT) large scale welds	M. Pavan (p.123) Evaluation of Residual Stress in a 2050-T84 Aluminium plate after laser shock peening	A. Magnier (p.119) Residual Stress analysis on injected Polycarbonate samples
13:40-14:00	D. Schroepfer (p.62) Multi-axial analyses of welding stresses in high-strength steel welds	S. J. Lainé (p.163) Characterisation of Deformation Twinning, Dislocations and Shear Banding Produced By Laser Shock Peening and Metallic Shot Peening of Ti–6Al–4V	A Kallel (p.41) The residual stress effect on the shape memory polymers
14:00-14:20	S. Paddea (p.157) Residual Stresses in High-pressure Cold Rolled and Laser Processed Plasma-Welded Plates	E. Kingston (p.178) Characterisation of the effect of corrosion on the residual stresses in girth weld pipe using ultrasonic calibrated with strain-relieving measurement techniques	C. Garza (p.53) Extension of the Deep-Hole Drilling method for the measurement of in-plane and out-of-plane residual stresses in composite laminates
14:20-14:40	A. Paradowska (p.46) Effect of post-weld heat treatment on residual stress and defect tolerance in a welded joint		C. Xu (p.179) Ultrasonic Non-destructive Testing and in Situ Regulation of Residual Stress
14:40-15:00	Afternoon Tea		
15:00-15:30	Chair 1: J. Francis, Chair 2: A. Paradowska Co-ordinator: C. Hamelin M. Ogawa (p.138) Evaluation of three-dimensional welding residual stresses based on the eigenstrain methodology via X-ray measurements	Chair 1: M. Hill, Chair 2: K. Langer Co-ordinator: P. Bendeich Invited: F. Hosseinzadeh (p.20) Measurement of residual stress in P91 Steel Electron Beam Welded Plates using the Contour Method for the Indo-UK project JOINT	Chair 1: I.C. Noyan, Chair 2: M. Pavier Co-ordinator: K. Toppler Invited: F. Lefebvre (p.27) Influence of residual stresses in real-world applications
	F. Grazzi (p.71) Determination of the residual stress distribution in a butt welding for comparative analysis among Surface and Bulk experimental Methods and Finite Element Modelling	X. Ficquet (p.177) Contour, iDHD, and ICHD residual stress measurements on a T-section plate	B. Launert (p.48) Residual stress influence on the flexural buckling of welded I-girders
15:50-16:10	N. Hempel (p.142) Residual stress analysis in girth-welded ferritic and austenitic steel pipes using neutron and X-ray diffraction	J. Araujo de Oliveira (p.96) Influence of different smoothing algorithms on residual stress determination using the contour method	R. Drafz (p.63) Rolling contact fatigue lifetime model for combined materials including residual stresses
16:10-16:30	R. Sharma (p.159) Comparison of submerged arc welding process modification on thermal strain by in-situ neutron diffraction	P. Xu (M. Rhode) (p.134) Combining sectioning method and X-ray diffraction for evaluation of residual stresses in welded high strength steel components	H. Weil (p.82) Residual stresses in modelling fatigue lifetime of gas nitrided iron-based alloys
16:30-16:50	G.W. Sloan (p.75) Residual Stress Measurement in a High Strength T Butt Weld Specimen by the Neutron Diffraction and Deep Hole Drilling Techniques	E. V. Puymbroeck (p.68) Effect of plasticity on residual stresses obtained by the incremental hole-drilling method with 3D FEM modelling	J. Chen (p.37) Stress Corrosion Cracking Behavior of A7N01S-T5 Aluminum Alloy Welded Joints for High-Speed Train Applications
16:50-17:10			

09:00-09:50	Plenary Lecture : M.R. Prime (p.10) Embrace the unexpected in residual stress: prediction 'failures' are opportunities Chair O. Muránsky, Co-ordinator: L. Edwards		
09:50-10:10	Morning Tea		
	CONFERENCE ROOM A	CONFERENCE ROOM B	CONFERENCE ROOM C
10:10-10:40	Chair 1: M.E. Fitzpatrick, Chair 2: F. Lefebvre Co-ordinator: K. Toppler Keynote: M.C. Smith (p.17) The Role of Weld Residual Stress Simulation in Ensuring Nuclear Plant Integrity	Chair 1: B. Scholtes, Chair 2: J. Gibmeier Co-ordinator: M. Saleh Keynote: M. Klaus (p.16) Nondestructive approaches for separating stress and composition gradients in surface layers by X-ray diffraction: A comparative assessment	Chair 1: P. Withers, Chair 2: S. Denis Co-ordinator: O. Muránsky Keynote: B. Abbey (p.12) Materials Characterisation at Multiple Lengthscales via Coherent Diffraction and Phase Contrast Imaging
	Invited: M. Tsunori (p.31) Numerical modelling and mitigation technique of welding distortion for fillet welding of aluminum plate	M.J. Tan (p.137) Evaluation of Surface and Sub-surface Residual Stress by X-ray diffraction & Correlative Stress Modelling	C.M. Wensrich (p.54) Bragg-edge neutron strain tomography through boundary displacement reconstruction
10:40-11:00	G. Salerno (p.65) Numerical simulation of residual stresses induced by weld repair in a stainless steel pipe with considering influences of initial fabrication weld	T.P. Ntsoane (p.171) In-vitro investigation of air plasma sprayed Hydroxyapatite coatings by means of diffraction	H.J. Kirkwood (p.81) Current progress towards tomographic imaging of strain fields using neutrons
11:00-11:20	Z. Feng (p.197) Weld Residual Stresses in Dissimilar Metal Welds – Modeling and Measurement	Y. Zhao (p.85) Microstructure and Residual Stress Distribution of Ni-Ti Composite Coatings by Electrodeposition	G. Geandier (p.79) Full stress tensor determination during phase transformation of a metal matrix composite by in situ high energy X-ray diffraction and micromechanical simulations
11:20-11:40	P. Bendeich (p.151) Keyhole TIG weld Residual Stress Simulation and Measurement in Stainless Steel 316 components	F. Cai (p.86) Residual Stresses on Electro-deposited NiCo-Al and NiCo-Zr Composite Coatings	M. Rouijaa (p.140) Modulation technique as a novel method to investigate Residual Stress of complex engineering materials at BEER: The Beamline for European Materials Engineering Research at ESS
11:40-12:00			
12:00-13:20	Lunch		
13:20-13:40	Chair 1: B. Clausen, Chair 2: A. Baczmański Co-ordinator: P. Bendeich Invited: S. Harjo (p.24) Monitoring Martensitic Transformation and The Strengthening Behavior during Tensile Deformation in TRIP Steel using Neutron Diffraction	Chair 1: J.R. Santisteban, Chair 2: V. Ji Co-ordinator: O. Muránsky Invited Y. Sano (p.29) Twenty year' experience in laser peening development and industrial applications	Chair 1: M. Prime, Chair 2: F. Hosseinzadeh Co-ordinator: C. Hamelin M. Pavier (p.126) Elastic and elastic-plastic behaviour of a crack in a residual stress field
	J. Ruiz-Hervias () RS measurements of alumina-zirconia ceramics by neutron diffraction	A. Klumpp (p.42) Residual stress states after Piezo Peening Treatment at cryogenic and elevated temperatures predicted by FEM using suitable material models	M. Ahmad (p.122) Fatigue and Residual Stresses in Clean Blasted Grey Cast Iron
13:40-14:00	K. Toppler (p.111) Neutron diffraction measurements of residual stress and mechanical testing of pressure sintered metal-ceramic composite systems	C. You (p.52) A numerical study of the effects of shot peening on crack growth in notch geometries under bending fatigue tests	H. Coules (p.83) The effects of residual stress on elastic-plastic fracture: two diffraction studies
14:00-14:20	F. Salvemini (p.69) Structural characterization of ancient Japanese swords from MAAS using neutron strain scanning measurements	C. Wang (p.87) Residual Stresses on Shot Peened Hard Alloy WC-10%Co	A. Lim (p.115) Quasi-static Process Modeling of Deep Cold Rolling on Ti-6Al-4V
14:20-14:40	T. Finlayson (p.170) Stress Developed in Inclusions by Plastic Flow in the Matrix of a Two-Phase Al-Si Composite	D. Cseh (p.189) Residual stress behavior in hardened shot peened 42CrMO4 specimens during fatigue load	M. Saleh (p.135) Analysis of the residual stress in ARMOX 500T armour steel and numerical study of the resultant ballistic performance
14:40-15:00			
15:00-15:30	Afternoon Tea		
15:30-15:50	Chair 1: S. Williams, Chair 2: M. Ogawa Co-ordinator: K. Toppler G. Benghalia (p.74) Measurements of surface and near-surface residual stress in 4330 low alloy carbon steel weld clad components	Chair 1: W. Pfeiffer, Chair 2: B. Abbey Co-ordinator: C. Hamelin Invited: J. Gibmeier (p.23) In-situ monitoring of laser surface line hardening by means of synchrotron X-ray diffraction	Chair 1: V. Ji, Chair 2: W. Pfeiffer Co-ordinator: M. Saleh Invited: I.C. Noyan (p.28) Accuracy and precision of stress determination using a portable 2D X-ray diffraction apparatus
	T. Nitschke-Pagel (p.167) Residual stress condition of tubular laser welds of an AZ31 -Magnesium alloy	J. Todt (p.108) In-Situ multi-axial stress maps in TiN thin film during indentation revealed by X-ray nanodiffraction: Technique and first results	B. B. He (p.50) Accuracy and Stability of 2D-XRD for Residual Stress Measurement
15:50-16:10	H. Alipooramirabad (p.90) Investigating the effects of mitigation techniques on residual stress, microstructure and mechanical properties of HSLA welds	J. Thornton (p.104) Residual Strains on Protective Coatings on Carbon-Carbon	A. Kohri (p.40) Comparison between the value of "cosa" method and the value of "sin2ψ" method.
16:10-16:30	X. Yu (p.187) Weld Tensile Residual Stress Mitigation Using Low Temperature Phase Transformation Filler Wire	J. Bednarcik (p.107) Determining topology of strain fields in indented bulk metallic glass using high-energy micro-diffraction	D. Delbergue (p.152) Comparison of two X-ray residual stress measurement methods: sin ² ψ and cos α, through the determination of a martensitic steel X-ray elastic constant
16:30-16:50	Y. Li (p.118) The effect of A7N01 aluminum alloy of different composition on the residual stress distribution status and porosity defects under high humidity welding environment	L. Suominen (p.112) Residual stress measurement of Ti-metal samples by means of XRD with Ti and Cu radiation	M. Belassel (p.130) Residual Stress Measurements Inside a Small Inner Diameter at Low Bragg Angle Using X-Ray Diffraction Technique
16:50-17:10			
17:10-18:00	Evening Break		
18:30-20:30	Poster Session		

09:00-09:50	Valedictory Lecture: E. Kingston (p.11) Vale Professor David Smith: The man of three legs Chair L. Edwards, Co-ordinator: L. Edwards		
09:50-10:20	Morning Tea		
	CONFERENCE ROOM A	CONFERENCE ROOM B	CONFERENCE ROOM C
10:20-10:40	Chair 1: I.C. Noyan, Chair 2: V. Luzin Co-ordinator: P. Bendeich Keynote: B. Clausen (p.13) Residual Stresses in Additively Manufactured Stainless Steels Parts Measured by Neutron Diffraction	Chair 1: M. Prime, Chair 2: M. Pavier Co-ordinator: K. Toppler S. Schuster (p.160) Local residual stress analysis on deep drawn cups by means of the incremental hole-drilling method A. Albertazzi (p.38) A Portable Optical DSPI System for Residual Stresses Measurement by Hole Drilling Using the Integral Method in Terms of Displacement	Chair 1: E. Mueller, Chair 2: B. Abbey Co-ordinator: C. Hamelin J. Mathew (p.99) Bounding residual stress profiles using an artificial neural network approach C. Mauduit (p.56) Analysis of residual stress relaxation under mechanical cyclic loading of shot-peened TRIP-aided steel
10:40-11:00			
11:00-11:20	Invited: B. Vrancken (p.49) Process parameters and residual stress in Additive Manufacturing	K. Natsui (p.168) A validation test for non-uniform residual stress measurement by the hole-drilling strain-gage method	M. Nakashiro (p.117) The relationship between X-ray stress measured value and applied stress in elastic/plastic deformation region in tensile testing
11:20-11:40	S. Williams (p.156) Residual Stress Characterisation and Control in the Additive Manufacture of Large Scale Metal Structures	V.V. Savitsky (p.89) Determination of residual stresses with plasticity effects by electron speckle-interferometry hole-drilling method	G. Altinkurt (p.72) Effect of thermal and mechanical loadings on the residual stress field in a nickel based superalloy using X-ray Laue microdiffraction and conventional X-ray measurements.
11:40-12:00	Y.J. Lin (p.148) Discussing of elastic deformation of additive manufacturing due to residual stress and external bending	N. Simon (p.145) Consideration of tool chamfer for realistic application of the incremental hole-drilling method	K. Sozen (p.186) Residual stresses measurements in LPG bullet welds by neutron diffraction
12:00-13:20	Lunch		
13:20-13:40	Chair 1: C. Tome, Chair 2: S. Harjo Co-ordinator: K. Toppler Invited: J. Epp (p.21) Effects of hydrostatic 2nd kind residual stresses and of carbon partitioning during martensitic quenching of low alloy steel	Chair 1: S. Denis, Chair 2: V. Luzin Co-ordinator: M. Saleh Invited: V. Ji (p.25) Residual stress analysis on oxide layers obtained by high temperature oxidation of Chromia-Forming alloys	Chair 1: J. Gibmeier, Chair 2: L. Suominen Co-ordinator: C. Hamelin W. Pfeiffer (p.176) Evaluation of thickness and residual stress of shallow surface regions from diffraction profiles
13:40-14:00	L. Barrallier (p.113) Cementite residual stresses analysis in gas-nitrided low alloy steels	W. Zinn (p.184) Turning residual stresses in functionally graded steel components	M. Meixner (p.127) Advanced energy-dispersive X-ray stress analysis under laboratory conditions: The new 8-circle diffractometer system LEDDI
14:00-14:20	M. Lundberg (p.128) Residual Stress Generation in Uniaxial Cyclic Loaded Pearlitic Lamellar Graphite Iron	Y.G. Shen (p.132) Stress-induced buckling, cracking, and spalling in sputterdeposited Ti-Si-N films	C. Genzel (p.73) Influence of the elastic anisotropy on depth-resolved X-ray residual stress analysis performed in the energydispersive diffraction mode
14:20-14:40	E. Gadalińska () Damage phenomenon in duplex steel studied using synchrotron radiation	D. Retraint (p.58) Residual stress evaluation using hole-drilling method on a Co-Cr-Mo alloy after a nanocrystallisation surface treatment	E. Mueller (p.64) How precise can be the residual stress determined by x-ray diffraction? A summery of the possibility and limits
14:40-15:00	P. Kanoute (p.149) Fatigue resistance of N18 nickel based superalloy treated by surface mechanical attrition treatment (SMAT)	N. Zhou (p.146) Residual stresses of stainless steels after surface grinding and their effect on chloride induced SCC	L. Toulabi (p.95) Influence of initial microstructure of IN718 on the residual stresses and the work hardening induced by shot peening
15:00-15:30	Afternoon Tea		
15:30-15:50	Chair 1: T. Holden, Chair 2: H. Suzuki Co-ordinator: P. Bendeich M. Reid (p.124) Residual stresses in Selective Laser Melted components of different geometries	Chair 1: M.R. Hill, Chair 2: E. Kingston Co-ordinator: M. Saleh A. Prithiviraj (p.47) Residual stress and contact force study for deep cold rolling on aero-engine material	Chair 1: M.E. Fitzpatrick, Chair 2: Z. Feng Co-ordinator: O. Muránsky S. Olsen (p.165) Stress analysis of bi-metallic coins, a potential shrink-fit ring & plug standard
15:50-16:10	V. Luzin (p.173) Stress in thin wall structures made by layer additive manufacturing	N. Lyubenova (p.143) Influence of the pre-stressing on the residual stresses induced by deep rolling	R. Wang (p.36) Ultrasonic Residual Stress Measurement Method And Applications
16:10-16:30	A. Kromm (p.34) Influence of weld repair by gouging on the residual stresses in high strength steels	D.T. Ardi (p.60) Investigations of the residual stresses and surface integrity generated by a novel mechanical surface strengthening	J. Kleiman (p.101) Ultrasonic Measurement of Residual Stresses in Welded Elements and Structures
16:30-16:50	J. Kornmeier (p.103) Local texture and residual stress characterization of clad layers in process vessels using neutron diffraction	J. Kehl (p.109) Simulative investigations of the influence of surface indentations on residual stresses on inner raceways for roller element bearings	A.K. Hellier (p.39) Effect of ultrasonic peening on residual stresses at a T-butt weld toe
16:50-17:10	N.D. Raath (p.141) Boron steel resistance spot weld: residual strain measurement and data input for quasi-static destructive finite element modelling	J.P. Nobre (p.51) Effects of Numerical Methods on Residual Stress Evaluation by the Incremental Hole-drilling Technique using the Integral Method	Y. Sun (p.180) The development of a new residual stress measurement method for roll formed products
17:10-18:00	Evening Break		
18:00-22:00	Reception (18:00) followed by Conference Dinner (19:30)		

	CONFERENCE ROOM A	CONFERENCE ROOM B	CONFERENCE ROOM C
	Chair 1: M.C. Smith, Chair 2: V. Luzin Co-ordinator: P. Bendeich	Chair 1: J. Francis, Chair 2: M. Saleh Co-ordinator: C. Hamelin	Chair 1: P. Withers, Chair 2: A. Paradowska Co-ordinator: O. Muránsky
9:00-9.20	Invited: H. Suzuki (p.30) Structural Engineering Studies on Reinforced Concrete Structure using Neutron Diffraction	P. Weidmann (p.150) Evaluation of residual stress determinations conducted with laser ablation and optical displacement measurement	S.Y. Lee (p.161) Measurement of Interface Thermal Resistance with Neutron Diffraction
9:20-9.40	D. Panic (p.147) Numerical approach for determining cyclic durability of autofrettaged components taking into account plasticity and temperature effects	P. S. Baburamani (p.155) Through thickness residual stress and microstructural mapping of AA7085-T7452 die forging	C. Davey (p.61) A non-destructive investigation of two Cypriot Bronze Age knife blades using neutron diffraction residual stress analysis
9.40-10.00	H.B. Liu (p.192) Machining-induced Surface Residual Stress Prediction Based on Cutting Action Decomposition	M.J. Azizpour (p.120) Evaluation the Residual Stress in the Hot Forming Process Using Hole Drilling	L. Su (p.114) Residual stress study of Al/Al laminates processed by accumulative roll bonding
10.00-10.20	D.K. Sehgal (p.154) Development of miniature specimen test technique for the determination of mechanical properties of materials exposed to residual stresses and service environment	J.H. Kim (p.110) Evaluation of Residual Stress using Instrumented Indentation Testing (IIT)	A.M. Venter (p.43) Benchmarking studies of the MPIISI material science diffractometer at SAFARI-1
10.20-10.40		H.J. Ahn (p.84) Evaluation of the Directionality of Residual Stress using Instrumented Indentation Test (IIT)	
10:40 -11.00	Morning Tea		
11.00 -11.20	Conference Photograph		
11.20 – 12.30	Awards and Prizes Poster Winners Presentations ICRS-11 Announcement Conference Closing Ceremony		
12:30-13:30	Lunch		
13:30 -15.30	Australian Marsupial Visit		

ICRS-10 Poster Session 18:30 – 20:30 Tuesday 5 July

P1	A.M. Venter	Charaterisation of residual stresses in HVOF coated steel substrates subjected to erosion testing
P2	D. Apel	The 8-circle diffractometer system LEDDI for energy-dispersive near surface analysis of structural and residual stress gradients
P3	D. Retraint	Surface mechanical attrition treatment effect on gas nitriding treatment of a martensitic steel
P4	E. Wasniewski	GFAC projects in residual stress analyses by X-ray diffraction: external reference samples, material removal correction
P5	G.W. Sloan	Validation of neutron diffraction and the incremental deep hole drilling residual stress measurements of a high strength T butt weld test piece using the contour residual stress measurement technique
P6	G. Chang	Thermal stress analysis and fatigue behaviour of Fe-based alloy by laser cladding the surface of 2Cr13 steel
P7	G. Geandier	Stresses gradient evaluation in thermal sprayed multilayer materials using synchrotron radiation
P8	H.Y. Lee	Residual stress measurement of highly orientated thin film by in-plane x-ray diffraction
P9	J.P. Nobre	Residual stress redistribution due to the removal of material layers by electrolytic polishing
P10	J. Hensel	Residual stress relaxation in welded steel joints – an experimentally-based model
P11	J.Klassen	Challenges in the calculation of residual stresses in thick walled components
P12	J. Gibmeier	Residual stress depth gradients induced by case hardening of PM processed porous spur gears
P13	J. Fang	Evaluations of residual stress in micromachined structures by measuring deformation and critical voltage
P14	P. Ji	Analysis of internal residual stress of ME21 magnesium alloy extruded sheets by short-wavelength X-ray diffraction
P15	J. Kleiman	Residual stress management in welding: residual stress measurement and improvement treatments
P16	M. Lundber	3D residual stresses in AM SLM Hastelloy X
P17	M. Liu	Study on the relaxation of residual stress and high temperature fatigue strength of 17-4PH shot peening surface at elevated temperature
P18	M.J. Azizpour	The effect of particle velocity on residual stress of thermally sprayed coating
P19	M. Reid	Recent upgrades to the residual stress diffractometer, KOWARI
P20	M. Belassel	Comparison of residual stress measurement techniques and implementation using X-Ray diffraction
P21	M. Hofmann	Effect of post-machining on residual stress in a welded austenitic steel plate
P22	M. Marciszko	Stress measurements by multi-reflexion and multi-wavelength diffraction method
P23	M.B. Prime	Amplified effect of mild plastic anisotropy on residual strain anisotropy
P24	S.Y Lee	Residual stress and oxidation behavior of shot peened Ag-based contact materials via diffraction technique
P25	T. Kikuchi	Evaluation of tri-axial stress state by x-ray diffraction incorporating d0 optimization
P26	B. Voillot	XRD stress analysis combining in-situ tests and integrated approaches
P27	R.L Peng	Residual stresses in Dengeling treated aluminium alloy AA7050
P28	Y. Yokoyama	Investigation of residual stress as function of welding parameter
P29	H. Alipooramirabad	Numerical and experimental investigations of welding stresses in WIC weldability test
P30	X. Yu	Development of constitutive dynamic strain hardening equations for residual stress simulation
P31	Z. N. Bi	Cooling treatment optimization for residual stress and microstructure control in superalloy disk
P32	V. Luzin	Residual stress in metal-matrix composite cylinder measured by neutron diffraction and contour method
P33	B. Clausen	Engineering neutron diffraction measurements at SMARTS
P34	B. Abbey	A direct approach to in-plane stress separation using photoelastic ptychography
P35	J. Epp	In situ X-ray diffraction investigation of surface modifications during a deep rolling process
P36	A. Tamonov	Residual stress investigations at IBR-2 reactor (FLNP JINR, Dubna)
P37	S. Wronski	Microstructure and stress evolution of titanium after tensile test
P38	S. Tsutsumi	Numerical analysis on RS, deformation and hardening induced by laser peening
P39	C. Polese	Determination of laser shock peening residual stresses in thin Aluminium alloy plates by the incremental hole-drilling technique
P40	E. Skaff	X-ray diffraction measurements and investigation of the stress relaxation in autofrettaged AISI 4140 steel thick walled cylinders