

Sunday 4 July	
<b>18.30</b>	<b>Welcome cocktail and registration</b>

Monday 5 July	
<b>9.00 - 10.20</b>	<b>Welcome and opening presentation</b>
9.00 - 9.20	Opening and welcome address
9.20 - 10.20	R.A. Guyer <i>Fifteen years of nonlinear mesoscopic elasticity, a Review</i>
<b>10.20 - 13.00</b>	<b>Scientific session: GEOPHYSICS I</b>
10.20 - 11.00	P.A. Johnson <i>Stress controls on earthquake slip, including triggered slow silent slip, stick – slip and recovery, with implications to earthquakes</i>
11.00 - 11.30	Coffee break
11.30 - 12.10	M.S. Korman <i>Soil Plate Oscillator: Determining Flexural Mesoscopic Nonlinear Elastic Behavior in Granular Media</i>
12.10 - 12.50	J. Carmeliet <i>Micromechanics of dynamic earthquake triggering: investigation by Discrete Element Method modeling and simulation</i>
12.50 - 13.00	Buffer time
13.00 - 15.00	Lunch
<b>15.00 - 17.30</b>	<b>Scientific session: GEOPHYSICS II</b>
15.00 - 15.40	E.G. Daub <i>Inferring in situ physical conditions for tremor at the Parkfield seismic laboratory</i>
15.40 - 16.20	D.L. Johnson <i>Three wave mixing test of hyperelasticity in highly nonlinear solids: sedimentary rocks</i>
16.20 - 16.50	Afternoon coffee
16.50 - 17.30	C. Bradley <i>Discrete element method for modeling fracture and failure in the earth</i>

Tuesday 6 July	
<b>9.00 - 13.00</b>	<b>Scientific session: MODELING I</b>
9.00 - 9.40	J.A. TenCate <i>Slow Dynamics Recovery Experiments at very very long times</i>
9.40 - 10.20	M. Scalerandi <i>Nonequilibrium effects on elastic nonlinearity induced by low-amplitude excitations: experiments and simulations</i>
10.20 - 11.00	D. Derome <i>PM-space modelling of hysteretic nonlinear sorption and swelling behavior of wood</i>
11.00 - 11.30	Coffee break
11.30 - 12.10	H. A. Kim <i>Hysteretic elastic systems</i>
12.10 - 12.50	K. Van Den Abeele <i>Finite difference simulations of closed delaminations in composite materials</i>
12.50 - 13.00	Buffer time
13.00 - 15.00	Lunch
<b>15.00 - 17.00</b>	<b>Scientific session: MODELING II</b>
15.00 - 15.40	K.R. McCall <i>Plug formation in granular flow</i>
15.40 - 16.20	W. Domanski <i>On weakly nonlinear elastic waves in anisotropic materials</i>
16.20 - 17.00	V. Aleshin <i>General solution of the contact problem of two spheres with friction</i>
<b>17.30</b>	<b>Walking tour of Otranto</b>
<b>19.30</b>	<b>Social dinner</b>

Wednesday 7 July	
<b>9.00 - 13.00</b>	<b>Excursion to Santa Cesarea</b>
<b>15.00 - 18.00</b>	<b>Scientific session: TIME REVERSAL</b>
15.00 - 15.40	K. Van Den Abeele <i>Determination of material velocities using an iterative procedure based on time reversed acoustics</i>
15.40 - 16.20	T. J. Ulrich <i>The Time Reversal Acoustic Non-contact Source (TRANS)</i>
16.20 - 16.40	Afternoon coffee
16.40 - 17.20	C. Larmat <i>Using time-reversal to locate non-volcanic tremor and fulfil the monitoring objectives of the nuclear-test ban treaty</i>
17.20 - 18.00	Z. Prevorsevsky <i>Nonlinear detection in complex aircraft part by TR-ESAM Method compared with AE results</i>

Thursday 8 July	
<b>9.00 - 13.00</b>	<b>Scientific session: NDE I - Concrete</b>
9.00 - 9.40	C. Payan <i>I - Effect of carbonation on the nonlinear response of concrete</i> <i>II - Macro crack characterisation by linear and nonlinear ultrasound in concrete</i>
9.40 - 10.20	C.L.E. Bruno <i>Break of the reciprocity principle induced by cracks in concrete: experimental evidence and applications to nonlinear tomography</i>
10.20 - 11.00	L. Padzera <i>Application of nonlinear techniques at concrete hardening</i>
11.00 - 11.30	Coffee break
11.30 - 12.10	P. Antonaci <i>Robustness of the SSM applied to damage assessment in concrete</i>
12.10 - 12.50	M. Korenska <i>Nonlinear ultrasonic spectroscopy as a tool to evaluate concrete structure integrity</i>
12.50 - 13.00	Buffer time
13.00 - 15.00	Lunch
<b>16.30 - 20.00</b>	<b>Tour to Lecce</b>
<b>20.00</b>	<b>Dinner in Lecce and return to Otranto</b>

Friday 9 July	
<b>9.00 - 11.00</b>	<b>Scientific session: NDE II - Metals</b>
9.00 - 9.40	T.A. Saleh <i>Nonlinear studies of transient phenomena in plutonium, aluminium and tantalum</i>
9.40 - 10.20	Y. Ohara <i>Ultrasonic imaging of stress corrosion crack formed under high temperature pressurized water</i>
10.20 - 11.00	C. Payan <i>Evaluation of epoxy bonded joint quality using nonlinear acoustics</i>
11.00 - 11.30	Coffee break
<b>11.30 - 13.00</b>	<b>Scientific session: NDE III - Medical applications</b>
11.30 - 12.10	G. Renaud <i>Using nonclassical acoustic nonlinearity exhibited by lipid-coated microbubbles to enhance contrast in medical ultrasound imaging</i>
12.10 - 12.50	S. Hauptert <i>Probing hysteretic elasticity in weakly nonlinear materials</i>
12.50 - 13.00	Buffer time
13.00 - 15.00	Lunch
<b>15.00 - 17.30</b>	<b>Scientific session: NDE IV - Rocks, fluids and porous materials</b>
15.00 - 15.40	P.Y. Le Bas <i>Parametric interaction of sounds in rocks</i>
15.40 - 16.20	M. Cavaro <i>Nonlinear acoustic characterization of microbubbles cloud</i>
16.20 - 16.50	Afternoon coffee
16.50 - 17.30	J. Skramlik <i>Nonlinear distribution of moisture in building materials</i>

Saturday 10 July	
<b>9.30 - 13.00</b>	<b>Scientific session: NONLINEAR APPLICATIONS</b>
9.30 - 10.10	P.Y. Le Bas <i>Monitoring mechanical changes in rocks during supercritical CO<sub>2</sub> exposure</i>
10.10 - 10.50	T.J. Ulrich <i>Resonance Inspection Techniques &amp; Analyses (RITA)</i>
10.50 - 11.20	<i>Coffee break</i>
11.20 - 12.00	K. Van Den Abeele <i>Imaging multiple masked nonlinear scatterers applying a combination of time reversal principles and the selective source reduction method</i>
12.00 - 13.00	Discussion
13.00 - 15.00	<i>Lunch</i>
<b>15.00 - 17.30</b>	<b>Round table and last minute presentations</b>

Sunday 11 July	
<b>10.00 - 12.30</b>	<b>Future perspectives, conclusions and closing address</b>