

27TH European Conference on Acoustic Emission Testing

[The 27th Conference on Acoustic Emission Testing](#) was held in the Main College of Cardiff University from 20th to 22nd September, 2006. The conference was opened by the Director of Engineering, Professor Hywel Thomas and hosted by Professor Karen Holford, with an opening history of EWGAE presented by Peter Tscheliesnig. 100 delegates attended, these were drawn from the Czech Republic, Germany, Japan, Sweden, Russia, France, Belgium, Switzerland, Poland, Saudi Arabia, Austria, Argentina, USA, Spain, Greece and Italy, also attracting participants from Scotland, England and Wales.

The aim of the conference was to bring together the expertise of scientists and engineers, from both academia and industry, to exchange information on acoustic emission with particular emphasis on scientific and technical development.

The conference covered activities relevant to acoustic emission of engineering structures and systems, including processing of collected data and analytical techniques as well as experimental case studies.

Chairs of Sessions:

- Structural Integrity - K M Holford
- Rotating Machinery - J A Steel
- AE Waves and Signal Processing - K Worden
- AE Sensors and Coupling - T Holroyd
- Pressure Vessels and Pipes - P Cole
- Case Studies - L Rogers
- Concrete - T Bradshaw
- Corrosion - P Tscheliesnig
- Composites 1 - M Wevers
- Phase Changes and Thermal Effects - S L Evans
- Composites 2 - J M Dulieu-Barton
- Case Studies - H Vallen
- Vendor Applications - P Tscheliesnig

The Programme featured three keynote addresses as follows:

“Me and AE – The Early Years 1962 to 1982,” Allen Green, Acoustic Technology Group, USA

“Quantitative AE Techniques Standardized for Concrete Structures,” Masayasu Ohtsu, Kumamoto University, Japan

“More than a Half Century of AE Testing (AT) at TUV Austria,” Peter Tscheliesnig, TUV Austria.

Conference papers were presented by the following:

C K Lee	(UK)	J Zizka	(Czech Rep)
J J Scholey	(UK)	H Noma	(Japan)
R Pullin	(UK)	K Worden	(UK)
D Mba	(UK)	G Lackner	(Austria)
L Rogers	(UK)	V Gomera	(Russia)
T J Holroyd	(UK)	V Svoboda	(Czech Rep)
I Kalaitzoglou	(Greece)	M Nowak	(Poland)
M A Hamstad	(USA)	N A Thakkar	(UK)

P D Wilcox	(UK)	J Sikula	(Czech Rep)
M Blahacek	(Czech Rep)	T Shiotani	(Japan)
A Gallego	(Spain)	P Gradin	(Sweden)
P Theobald	(UK)	S V Elizarov	(Russia)
R Chen	(UK)	N Muhamad Bunnori	(UK)
N H Faisal	(UK)	J M Dulieu-Barton	(UK)
J Crha	(Czech Rep)	H Haupt	(Germany)
K Yoshida	(Japan)	M Knuuttila	(Sweden)
A Vinogradov	(Japan)	T Bradshaw	(UK)
M Eaton	(UK)	I M De Rosa	(Italy)
H Zejli	(France)	H Vallen	(Germany)
A J Brunner	(Switzerland)	J Vallen	(Germany)
A Alyakritsky	(Russia)	J Forker	(Germany)
A Yonezu	(Japan)	M Wevers	(Belgium)
S Mechraoui	(France)	F Rauscher	(Austria)
T Lusa	(Poland)		

The social programme was included a Coach tour of Cardiff Bay including the Cardiff Bay Barrage, an informal meal at the Pearl of the Orient Restaurant and a Formal Conference Dinner at Cardiff Castle, including a history of the castle and an after dinner speech by [Marie-Noëlle Barton](#), CBE.

The papers from the conference have been published in the conference proceedings entitled 'Acoustic Emission Testing'. The proceedings are published by Trans Tech Publications in Advanced Materials Research Vols 13-14, available at <http://www.scientific.net>

A Young Researchers' competition was judged by the EWGAE Scientific Committee, the winner being Jonathan Scholey from Bristol University.

The 28th European Conference on Acoustic Emission Testing will be held in Poland in September 2008.

Professor Karen Holford