

Seminar on Recent Progress in Crack Propagation Modeling of Concrete-like Materials

## Program

Saturday March 19, 8:20-12:00

Co-chair: Chengbin Du

8:20	Opening
8:30 9:00 discussion	Development of the cracking particle method for fracture Charles Augarde Durham University
9:10 9:40 discussion	Three-dimensional cracking analysis of large arch dams based on unbalanced forces and energy minimization Qiang Yang <i>Tsinghua University</i>
	Tea Break(9:50~10:00)
10:00 10:30 discussion	Co-chair: Charles Augarde Numerical Simulation of Extreme Deformation Problems Xiong Zhang <i>Tsinghua University</i>
10:40 11:10 discussion	Study on hydraulic fracturing mechanism of concrete used in hydraulic structure engineering Zongli Li <i>Northwest A&amp;F university</i>
11:20 11:50 discussion	Evaluation of stress intensity factors based on analytical independent cover Haidong Su

Changjiang River Scientific Research Institute of Water Resources Commission



Saturday March 19, 13:30-17:40

	Co-chair: Dan Huang	
13:30	Reconstruction of internal structures for concrete composites and some	
14:00 discussion	novel numerical methods for crack propagation simulation	
	Chengbin Du	
	Hohai University	
14:10	Discontinuous Galerkin configurational force fracture	
14:40 discussion	Will Coombs	
	Durham University	
14:50	DEM/V DEM for onigotronic materials in fracture machanics	
	BEM/X-BEM for anisotropic materials in fracture mechanics Gabriel Hattori	
15:20 discussion		
	Durham University	
	Tea Break(15:30~15:40)	
	Tea Break(15:30~15:40) Co-chair: Xiong Zhang	
15:40	Co-chair: Xiong Zhang	
15:40 16:10 discussion	Co-chair: Xiong Zhang Several improvements and applications on XFEM	
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16:10 discussion	Co-chair: Xiong Zhang Several improvements and applications on XFEM Tiantang Yu <i>Hohai University</i>	
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17:00	Peridynamic model for concrete cracking
17:30 discussion	Dan Huang
	Hohai University