

Theme Lecture 20

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Theme Lecture Title

**A Micro-mechanics based Elastic-
Plastic Model for Saturated Porous
Rocks**

Professor SHAO has received his doctoral degree in 1987 from University of Sciences and Technologies of Lille in France. He is currently an excellent-class professor at this university. He was the director of the Laboratory of Mechanics of Lille (2010-2013), a Changjiang chair professor at Wuhan University (2007-2010), an overseas expert for the Chinese Academy of Sciences (CAS). He received an overseas outstanding young investigator award from the NSFC and the CAS. Since 2010, he is Thousand-talent chair professor at HOHAI University. He has received an “excellent contributions Award (2011)” from the Int. Association for computer methods and advances in Geomechanics (IACMAG).

Professor Shao has developed a series of theoretical, experimental and numerical studies in mechanics of geomaterials. He and his team have brought significant contributions to various topics, in particular, mechanics of saturated and partially saturated porous materials, damage mechanics and plasticity, thermo-hydromechanical and chemical coupling. He is an international expert on multi-scale approaches to nonlinear behaviors and THM-C coupling. His research results have been widely applied to various engineering applications such as petroleum industry, geological disposal of nuclear waste and sequestration of acid gas, hydraulic power engineering. He was and is a principal investigator of more than thirty national and international projects in France and in China.

He is author and co-author of 185 peer-reviewed SCI journal papers. He has also edited three books and contributed to 16 collective books.

He is an editorial member of four top-level international journals (IJP, IJRMMS, COGE, NAG) and an associated editor of the European Journal of Environmental and Civil Engineering (EJECE).