

会议简报

2015-03-12

ICHSU2014 Academic Committee

收到会议通知后，华中科技大学的高性能金属板料热成形研究团队，已经有 10 位研究生将参加这次会议，大约向会议提交 12 篇论文。中国汽车工程研究院也将投稿 5-6 篇。多家媒体也通过邮件询问参加会议的申请流程，表现出对在中国举办的首届高强度热成形国际会议的关注。汽车制造与零部件制造企业也高度关注这次会议，并期待参加这次会议并在新技术应用开发和技术创新上有所启发。

澳大利亚迪肯大学 2 位学者将出席这次会议，并且被邀请作为学术委员会委员，他们的简介如下：



Dr Michael P. Pereira is a Research Fellow at the Institute for Frontier Materials within Deakin University, located in Geelong, Australia. In 2010, he completed my PhD examining tool wear in sheet metal stamping, as part of our institute's ongoing collaboration with Ford Australia. During this time, I was also the leader of the Vehicle Structure team for Deakin University's successful proposal to 'Creating a Ford Model T for this Century – Global University Challenge', which was known as the Model T2.

His research has primarily been in the field of sheet metal stamping – both hot and cold – with a focus on understanding wear and contact behaviour and their effect on tool life, and improving process and material modelling. He also have a strong interest in the deformation of metals, automotive materials and design, and computational modelling. In 2011, he was awarded a prestigious postdoctoral industry fellowship (APDI) by the Australian Research Council as part of a Linkage Project focussed on developing a low-cost environmentally-friendly solution to reduce tool wear in sheet metal stamping. he is also currently associate project leader on an AutoCRC project with the Malaysian automotive industry, focussed on developing a wear prediction tool when stamping high strength steel sheets. His research team has been growing rapidly and I am currently involved in the supervision of 5 PhD students and the research projects for several master and undergraduate engineering students.

- [1] M.P. Pereira, W. Yan, B.F. Rolfe, (2008) "Contact pressure evolution and its relation to wear in sheet metal forming", *Wear*, Vol. 265, pp.1687-1699
- [2] S.A. Asgari, M. Pereira, B. Rolfe, M. Dingle, P. Hodgson, (2008) "Statistical analysis of finite element modeling in sheet metal forming and spring back analysis", *Journal of Materials Processing Technology* , Vol. 203, pp.129-136
- [3] M.P. Pereira, J.L. Duncan, W. Yan, B.F. Rolfe, (2009) "Contact pressure evolution at the die radius in sheet metal stamping", *Journal of Materials Processing Technology* , Vol. 209, pp.3532-3541
- [4] M.P. Pereira, W. Yan, B.F. Rolfe, (2010) "Sliding distance, contact pressure and wear in sheet metal stamping", *Wear*, Vol. 268, pp.1275-1284

- [5] M. Pereira, W. Yan, B. Rolfe, (2007) "Modeling of contact pressure in sheet metal forming", Materials Science Forum, Vol. 561-565, pp.1975-1978



Bernard Rolfe completed a combined Economics and Engineering degree with honours in 1995 from the Australian National University (ANU). During his degree he was employed as a graduate research engineer at the BHP Research Labs, investigating better control systems for hot strip steel mills. After he obtained his degree he worked for several years as a Business Systems consultant with Andersen Consulting (Accenture) before starting a PhD at the ANU. He completed his doctorate in 2002 researching novel methods for inverse modeling metal forming processes. This research included an IMechE award winning journal paper. Currently, he is an Associate Professor (equivalent of a tenured Professor in the US system) at Deakin University in Australia. He has been a part of over twelve successful competitive large research grants, totalling over AUD \$9 million in awarded funds. He has published over 100 refereed articles. His current research focus is the forming of light weight structures, including the development of better material models for metal forming. In 2008 Bernard led the Deakin's successful project team for "Creating the Model-T for the 21st Century – a Global University Challenge". Currently, he is the theme leader for the Automotive Technology Cooperative Research Centre's light weighting program.