



Université Bretagne Sud/University of South Brittany
 IRDL - UMR CNRS 6027
 Rue de Saint-Maudé - BP 92116 - 56321 Lorient (France)
 Tel.: +33 2 97 87 45 70
 sandrine.thuillier@univ-ubs.fr



Sandrine THUILLIER

Gender: female

French nationality

h-index:17 (WoS 2018) <https://scholar.google.com/citations?user=sCJtztwAAAAJ&hl=fr>

Full professor in Mechanical Engineering

Diplomas

- November 1992 **PhD of the National Polytechnic Institute of Grenoble**
 Material Science and Engineering
- November 2008 **Habilitation à Diriger des Recherches (HDR)** - University of South Brittany
 French diploma to become professor (no English translation)

Career

- 1993 – 2009 **Associate professor** - University of South Brittany
- January to July 2001 **Research leave** - University of Coimbra (Portugal)
-  *Grant from the Brittany region*
- 2007-2009 **Research leave** - LaMCoS, INSA Lyon - France)
-  *Grant from National Center for Scientific Research (CNRS)*
- Since 2009 **Full professor** - University of South Brittany
 Award from the French government for excellence in research
- January to August 2012 **Research leave** - Swinburne University of Technology (Melbourne, Australia)
-  *Grant from SUT*
- August 2013 Invited professor, REEF, University of Florida, USA
- September 2013 Invited professor, Xi'an Jiaotong University, Xi'an, China
- August 2016 Invited talk, Waterloo University, Canada
- December 2017 Plenary lecture on "Material characterisation for virtual sheet metal forming"
 AMPT conference, Chennai, India

Teaching activities

1. Undergraduate: mathematics, fluid and solid mechanics, material properties, numerical analysis
2. Postgraduate: modeling of material mechanical behavior, numerical simulation of forming processes, strain measure by digital image correlation
3. From 2009 to 2015, head of a professional bachelor degree in Thermal Engineering: 24 students, management of the studies and administrative tasks

Research activities

1. Experimental characterization of mechanical behavior of materials at room and warm temperatures: sheets of aluminium alloys, steels and Ti-Mo alloys, elastomers and thermoplastic composites
2. Material parameter identification by inverse methodology
3. Modeling of the mechanical behavior (elasto-visco-plasticity, anisotropic yield, ductile damage) up to rupture
4. Application in metal forming: deep drawing, surface defects, bending, twisting

PhD supervision

1. 9 co-supervisions of PhD students
2. Current PhD supervisions (2018): 5 students, with expected defence in 2018 (3), 2019 (1) and 2020 (1)
3. Member of PhD/HDR juries: 28 PhD and 2 HDR since 2007 in France, Belgium, Portugal and Australia, 21 as reviewer and 4 as president of the jury

Research projects

- 2007-2010: co-responsible of a national project for the numerical prediction and experimental validation of surface defects in deep-drawing (head of a team composed of 3 engineers, 1 researcher from China)
- 2010-2013: chief of a national project on the prediction of forming limits in bending (SIMENDO, with financial support from the French National Agency for Research/ANR) - 3 academic partners and 2 industrial partners
- 2011-2013: PHC-PESSOA (financial support from France and Portugal), joint research project with the University of Aveiro, Portugal
- Since 2013: industrial research projects, ArcelorMittal, LG Electronics (South Korea), Le Béon Manufacturing, Renault, ESI Group
- 2017-2021: EXPRESSo project, supported by Bpifrance and led by Valeo. Virtual design of a new leadframe for electronic components related to vehicle electrification

Scientific and administrative responsibilities

- Since 2016, head of the research group "Structures, fluids and interactions" of IRDL (22 researchers)
- Since 2016, elected member of the Executive board of University of South Brittany
- 2012-2016, member of the executive committee of the doctoral school SICMA. Since 2017: vice-director of doctoral school SPI n°602 of Université Bretagne Loire
- Since 2011, expert (research and teaching) for the French Evaluation Agency for Research and Higher Education (HCERES)
- Member of committees for recruitment of French associate and full professors: 3 (2013), 2 (2014), 3 (2015), 1 (2016), 4 (2017) and one as the president, 3 (2018)
- 2013-2017: co-organizer of a symposium at Esaform conferences: Integrated design, modeling and reliability assessment in forming.
- Member of Scientific Committee of international conferences: Esaform since 2012, Numisheet 2014, 2016 & 2018, IDDRG 2018, AEPA 2018. In 2016, co-organizer of the Esaform conference in Nantes. Since April 2016, member of Esaform board of directors

Co-author of 53 articles in peer-reviewed international journals and 64 papers presented at international conferences.