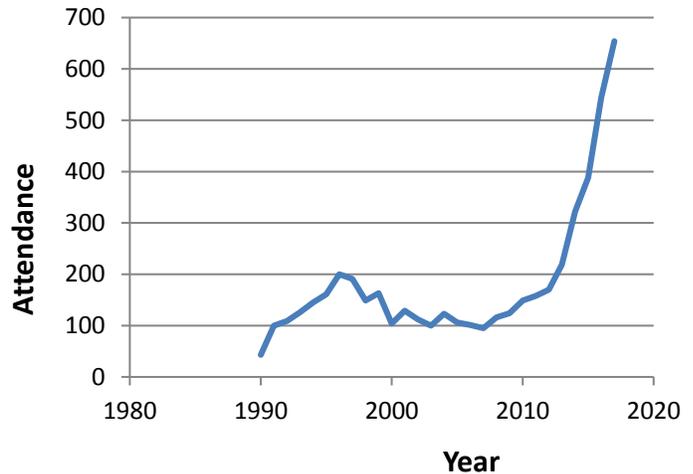


## PREFACE

The Twenty-Eighth Annual International Solid Freeform Fabrication (SFF) Symposium – An Additive Manufacturing Conference, held at The University of Texas in Austin on August 7-9, 2017, was attended by 654 researchers from 20 countries. The number of oral and poster presentations increased to 473 this year. The meeting was held on the Hilton Austin in the downtown area. The meeting consisted of a Monday morning plenary, 50 parallel technical sessions and a poster session.

The conference attendance is growing rapidly, clearly reflective of the interest at large in the area. The plot shows the conference attendance over its 28 year history.

The recipient of the International Outstanding Young Researcher in Freeform and Additive Manufacturing Award was **Dr. Allison Beese** from Penn State University. **Dr. Ian Gibson** from Deakin University in Australia won the International Freeform and Additive Manufacturing Excellence (FAME) Award.



There are 231 papers in the conference proceedings. Papers marked “REVIEWED” in the title area were peer reviewed by two external reviewers. The proceedings papers are stored individually on a flash drive in pdf format by sequential order in the proceedings, including the first author last name. The Table of Contents file and Author-Attendee file have links to all the papers. We have sequentially numbered the pages of the papers to facilitate citation. Manuscripts for this and all preceding SFF Symposia are available for free download at the conference website: <http://sffsymposium.engr.utexas.edu/archive>.

The editors would like to thank the Organizing Committee, the session chairs, the attendees for their enthusiastic participation, and the speakers both for their significant contribution to the meeting and for the relatively prompt delivery of the manuscripts comprising this volume. We look forward to the continued close cooperation of the additive manufacturing community in organizing the Symposium. We also want to thank the Office of Naval Research (N00014-17-1-2471) and the National Science Foundation (CMMI-1725038) for supporting this meeting financially. The meeting was co-organized by the Mechanical Engineering Department/Lab for Freeform Fabrication under the aegis of the Advanced Manufacturing and Design Center at The University of Texas at Austin.

The 2018 SFF Symposium is set for August 13-15, 2018 in Austin, Texas USA.

The editors.

