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17th annual Anglo-French Physical Acoustics Conference (AFPAC)

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Proceedings of the Anglo-French Physical Acoustics Conference (AFPAC)

Preface

The 17th annual Anglo-French Physical Acoustics Conference (AFPAC) was held at the Selsdon Park Hotel in Surrey UK from 17th to 19th of January 2018. Over the years AFPAC has established a unique character where a most diverse range of topics covering the many applications of acoustics and ultrasonics are discussed in a friendly environment with almost a residential workshop feel. The scientific standards are always high and PhD students make up a large proportion of the presentations. This 17th annual meeting was no exception. There were 42 presentations including 4 from invited speakers. These invited speakers included Andrea Colombi from Imperial College who talked about seismic waves and metamaterials. James Windmill of Strathclyde University presented work on how the study of insects is being used to develop new sensors. Emmanuel Moulin from Université de Valenciennes talked about coda waves in Structural Health monitoring (SHM) and Régis Marchiano from Université Pierre et Marie Curie in Paris presented work from a project on inverse problems using data collected by large arrays of microphones. Other subjects covered included acoustofluidics, acoustic tweezers and particle manipulation, biomedical ultrasound applications such as histotripsy, lithotripsy and HIFU, NDE and SHM for plate-like structures, corrosion and polycrystalline materials. There were also presentations on acoustically driven bubbles. A truly eclectic mix for those who are fascinated by all things acoustic!

These proceedings contain a collection of papers submitted by the participants at the 2018 AFPAC. Submission of manuscripts has always been done on a voluntary basis and we have continued to maintain a high standard of reviewing for those who choose to have their work published here.

Nader Saffari

Alain Lhemery



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