

Newsletter

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ORTHOPÄDIE + REHA-TECHNIK 2012

15 to 18 May · World Congress 16 to 18 May · Trade Show

Leipzig · Germany

International Trade Show for Prosthetics, Orthotics, Orthopaedic Footwear Technology, Compression Therapy and Rehabilitation Technology

The A-FOOTPRINT project takes its 'first steps' to disseminate results at the leading International Orthotics and Prosthetics trade show and World Congress



Orthopadie + Reha-Technik is held bi-annually in the city of Leipzig, Germany. It one of the largest international trade fairs for and prosthetics orthotics. orthopaedic footwear technology and rehabilitation technologies. The trade fair is with combined а World Congress and together the event attracts around 20,000 visitors over three days.

The stand was located in the *Campus Area*, a space dedicated to orthotic, prosthetic and rehabilitation technology R&D initiatives. Materials on display included the standard project brochure and flyers, newsletters and evaluation forms. An eight minute digital presentation

was developed for the exhibition and provided a concise summary of the background, objectives and research and technology developments within the project. Four Ankle-Foot Orthotic (AFO) prototypes were manufactured for the event. These featured a standard device manufactured in nylon via selective laser sintering, a hinged AFO with several novel design features and customisable functional parts, a finite-element analysis device optimised for strength/mass, and a 'fun' concept device personalised with a 'skull' designed back-plate, to show the freeform design capabilities of additive manufacturing. Three foot orthotics (FO) prototypes were demonstrated. The first device was a standard rigid motion controlling FO. The second device was a standard FO manufactured by low-cost 3D printing. The final FO prototype was a standard device with a novel motion control design feature based on flexible hinged elements in the heel section.





Visitors crowd the A-FOOTPRINT stand



For the event, SME partner Peacocks Medical Group manufactured scaled models of both the various stages of AFO's and FO's at construction. These models were extremely useful to help explain the additive manufacturing process to visitors to the stand. Visiting traffic was high across the three days. This included representatives from large industry and SME orthotic companies, research and development companies and organisations, clinicians and technicians, orthotic rehabilitation materials and product suppliers. stand also had visits from trade ambassadors from Germany, France and the UK. The areas of the project that formed most of the discussion with visitors were based around the demonstration prototype AFO and FO products and how additive manufacturing techniques had been developed for that

purpose. There was significant interest in the patient information system, the development of the computer-aided design software system, technology integration, and the business model for commercialisation. Ninety-three countries were represented with 35% of visitors from abroad including nearly half of the 537 exhibiting companies thus ensuring the *A-FOOTPRINT* project reached a wide audience.

At the parallel World Congress event, the A-FOOTPRINT project was awarded a full symposium session. Under the title, 'A-FOOTPRINT: new generation ankle-foot and foot orthoses'. Consortium partners provided short podium presentations to give a general overview of the project with more detailed presentations on the development of computer-aidided design software, functional customisation and the development of additive manufacturing techniques. The symposium was well attended and sufficient time was allowed for delegates to ask questions and discuss the various aspects of the project. An evaluation questionnaire was issued at both the stand and the congres symposium and the feedback for both was excellent. In particular a wide-range of industry experts requested an invitation to the final project demonstration events scheduled for 2013 at the pilot factory based in Newcastle, UK.



Staff from SME partner Peacocks Medical Group discuss the project with exhibition visitors

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