



SAFEJOINT SECOND PROJECT MEETING

THE SAFEJOINT consortium held its second project meeting in Lagos, Portugal, hosted by the partner AP&M. The aim of the two-day meeting was to bring the consortium up-to-date with the progress of the project and to have the opportunity to discuss the way forward including detail of the next 6 months work.

The first day of the meeting focussed on the dissemination activities of the project; submitted deliverables and activities that partners have actioned in the last six months. Future decisions about processes and materials for future testing were also decided.

The second day of the meeting mainly discussed the next 6 months of the project and how the testing and work towards the next deliverables should progress.

The meeting ended with clarification about Intellectual Property (IP), which is an important issue in SAFEJOINT since there are both industrial and academic partners, and some IP already exists.

The next meeting of the SAFEJOINT project will be in Zaragoza, Spain in January 2014, hosted by partner Aragon Institute of Technology (ITA)



SAFEJOINT INDUSTRY WORKSHOP

SAFEJOINT will be holding a workshop in the middle of 2014, which will aim to exchange the SAFEJOINT research results to interested stakeholders, especially industrial partners outside the consortium. The aim of the workshop will be to encourage collaboration with various industry associations and the opportunity to survey industry needs. The impact of the workshop will be measured by how the project matches the project knowledge with the needs of external industry. Activity to organise the workshop will begin by the end of 2013. Should you be interested in participating at the workshop please follow developments on the SAFEJOINT website www.safejoint.net or email belinda.fairbairn@ncl.ac.uk

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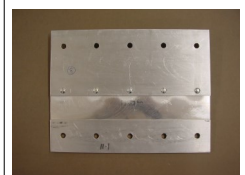
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The SAFEJOINT Project is part-funded by the European Commission (EC) FP7 Programme

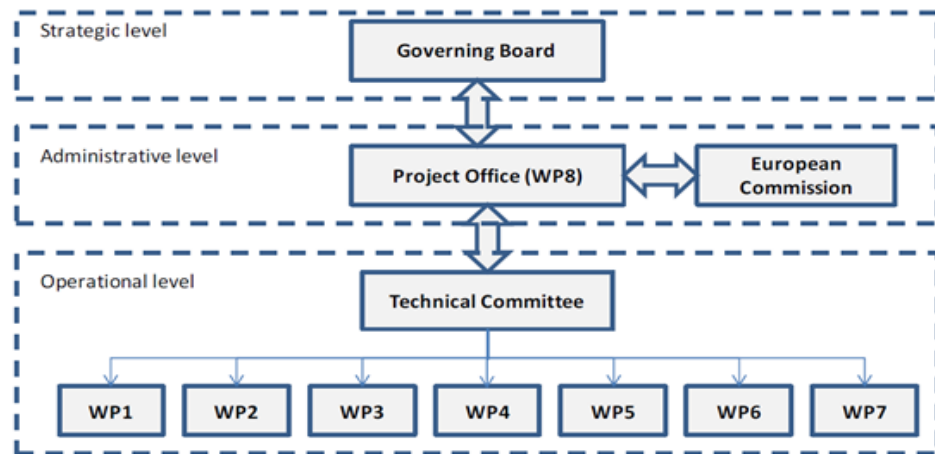


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The Technical Committee

In our first Newsletter, we detailed the function of the Industry Advisory Group. Within the SAFEJOINT project, there is also a complementary Technical Committee, responsible for the management of day-to-day scientific work. This Committee is headed up by the Project Coordinator, and comprises the Leaders of the Project's technical Work Packages 1 to 7. It works to ensure there is good communication between Work Packages to eliminate duplication of effort, for example by sharing test results, resolving conflicts and problems of a scientific nature, and peer reviewing deliverables as a means of quality control.



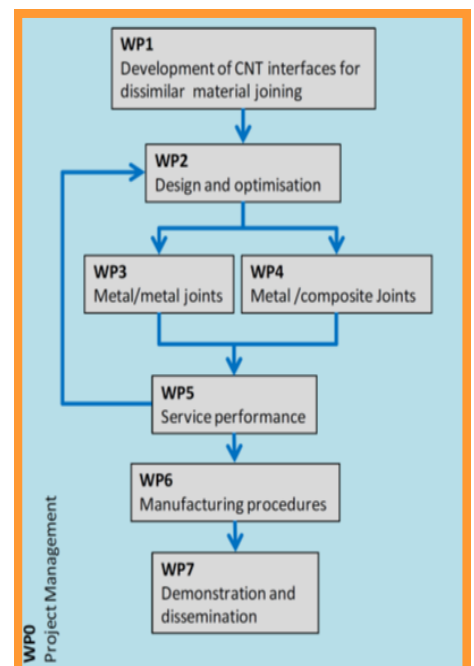
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The Technical Committee will also assess the technical progress against resources consumed and is assisted by the Industry Advisory Group as required, for example when discussing the management of any arising intellectual property.

Work Packages

The **overall objective of SAFEJOINT** is to develop technologies for the design and manufacture of innovative lightweight metal to metal and metal to composite joints while utilising the unique characteristic properties of specially tailored nanomaterials introduced at the joint interfacial region. Methodologies necessary for reliable through life inspection of their integrity will be put in place to maximise the industrial impact of the results of the research work.

The project comprises of 7 interdependent technical Work Packages (WP). More detail about each WP can be found on the project website, including the 'non-technical' WP8 Dissemination and WP9 Project Management.

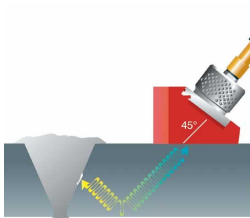


Focus on... Work Package 1

WP1 participants have been undertaking a literature review of joining technologies and carrying out a benchmarking of joints against which the progress of SAFEJOINT will be measured. Since the most important aspect of any joint is the interface between the two materials, detailed studies to tailor different interfaces to achieve both dissimilar metal and metal/composite joints are being carried out and the processes modelled.

At the June 2013 SAFEJOINT project meeting in Portugal, consortium partners UNEW, ITA and NTUA detailed their progress to date on the tasks within WP1. Most consortium partners are undertaking desk research within WP1:

- UNEW's focus is on the use of carbon nanotubes (CNTs), electrophoretic deposition (EPD), the mechanical behaviour of joints and their failures, delamination and piezoelectric paints.

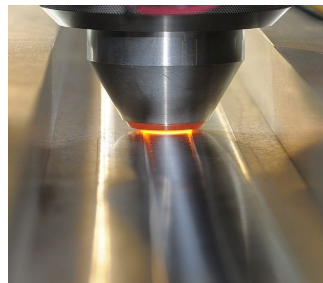


- KTU is assessing novel non-destructive techniques (NDT) for inspection of dissimilar material joints, specifically focusing on the use of ultrasonic techniques.

- ITA is investigating the design of a mixing and disposal system that will allow the manufacture of functionally graded adhesive joints and control of the property variation that will be obtained in the bond-lines.

- NTUA's work looks into friction stir welding (FSW) and the use of particle enhancements within the process.

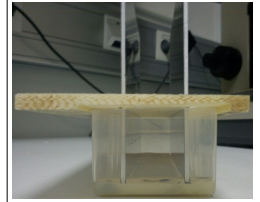
- Industrial partner CAF is identifying possible applications for the technology and is selecting a demonstrator to undertake tests.



- SICOMP is undertaking detailed benchmarking work to establish optimal processing conditions and CNT dispersions through EPD treatment.
- IVF is concentrating on appropriate spinning methods (electrospinning and wet spinning) of thermoplastics to produce thin veils of CNTs for use at joint interfaces.

Once approved by the European Commission, the results from WP research will be published on the project website, in the form of deliverable reports.

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