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Sensor Coating Systems Ltd. (SCS)
www.sensorcoatings.com

Press Release
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Net Carbon Zero: SCS unveils state-of-the-art robotics laboratory for advanced thermal mapping

London/Dagenham, UK – 4th April 2025 – Sensor Coating Systems Ltd is a leader in thermal measurement technology for gas turbines. This technology enables power plants and aeroplanes to run more efficiently and emit less carbon. To support the company's continued growth SCS opens its new robotic laboratory. This investment will significantly increase the company's test capacity and is aiming to support its growing global customer base. The official opening ceremony was supported by the newly elected local Member of Parliament for Dagenham and Rainham Margaret Mullane and also involved local schools, colleges and universities to demonstrate the exciting science and engineering. For the opening day a range of world leading UK professors from Cambridge, University College London, Queen Mary University of London, Nottingham and Cranfield Universities attended the event.

SCS, a global leader in temperature measurement solutions, provides accurate and reliable temperature data to customers across the US, Europe and Asia, in Power Generation, Aerospace, Automotive and Industrial markets. Their unique and advanced thermal maps help to develop more clean and reliable energy solutions to a growing international customer base.

This additional facility will significantly enhance SCS's test capabilities. The introduction of two new state-of-the-art ABB robots supplements its existing range of robots and is dedicated solely to laboratory measurements. These robots in combination with SCS's proprietary measurement equipment will enable accurate laser scanning of components. Today, SCS can generate thousands of measurement points on a single component, resolving minute temperature gradients on highly loaded parts, a unique capability that can't be achieved with existing measurement technologies. The robots allow the scanning of a large range of highly complex components from cooled turbine blades, vanes and turbo charger parts, to large transition ducts, helicopter blades and bearings. The additional robots will provide four times more throughput of engine components being processed. The lab represents a crucial step in strengthening SCS's capacity to serve its growing global customer base.

To commemorate this milestone SCS hosted a grand opening event which, after a warm welcome from the Managing Director Dr Jörg Feist, began with a formal ribbon-cutting ceremony officiated by Margaret Mullane, MP for Dagenham and Rainham. In addition, SCS welcomed leading UK academics from Queen Mary University, Cranfield, Nottingham, University College London, and Cambridge. Representatives from the Dagenham & Barking Chamber of Commerce and NATEP were also welcomed by the team. The opening ceremony was followed by guided tours of the facility, offering guests an exclusive look at the overall technical delivery process. Live demonstrations

showcased the precision and efficiency of the ABB robots, emphasising the practical applications of robotics in enhancing production and research. Managing Director Dr Jörg Feist remarked, "This new laboratory is another milestone in SCS' history and a testament to its growing customer base. The team also is excited to share its achievements with local students and showcase that STEM subjects are highly relevant in a technical fast evolving world."

SCS' Chairman, Will Iselin, commented, "I am extremely proud of the SCS team, which continues to push the boundaries of temperature measurement in harsh conditions and this new facility cements its technological leadership position in the field."

SCS also took the opportunity to extend invitations to local schools and colleges, recognising the importance of inspiring future engineers. Students from Brook Sixth Form and Academy, Brampton Manor Academy, Anglo-European School, Imperial College and the University of Coventry in Dagenham joined to engage with leading academics and industry professionals.

The event concluded with an engaging STEM panel discussion featuring members of the SCS team and a range of world leading professors. The focus was on the different career pathways into engineering and science. The panellists covered a diverse range of technical degrees in subjects ranging from chemistry, material science, physics and engineering. This interactive session explored the evolving landscape of STEM fields, the critical role of robotics in industry, and the importance of equipping students with real-world skills.

The STEM event was kindly co-sponsored by the Royal Commission for the Exhibition of 1851.

More information and technical insights can be found by visiting www.sensorcoatings.com

About Sensor Coating Systems Limited

Sensor Coating Systems Limited (SCS) was spun out of Southside Thermal Sciences, an Imperial College London start up and is privately funded. Its award-winning technology (British Engineering Excellence Award, Royal Society of Chemistry, American Society of Mechanical Engineers) enables accurate temperature detection and, in doing so, assists in optimising the operation of machinery, lowering fuel costs and maintaining material integrity.

SCS provides a temperature data service on mission-critical components to a global client base in the areas of aerospace, power generation, automotive and industrial sectors. The technology is an enabling technology assisting in reducing CO2 emissions by providing crucial temperature data to design engineers. The benefits are lower emissions, but also quicker market entries for new products and lower failure rates once the product goes into the marketplace.

The company works progressively and collaborates with a number of UK and global based organisations, educational institutions, and research councils to help facilitate its R&D projects and growth in the technology sector.

About Thermal History Technology

The patented Thermal History Technology is a unique luminescence-based sensing technology which enables engineers to record past temperatures on inaccessible components. The temperature measurement capability reaches from around 150°C to 1,600°C. This makes the technology very useful for the evaluation and design of mission-critical components in harsh environments such as gas turbines or internal combustion engines.



About the Event Sponsor

The Royal Commission for the Exhibition of 1851 awards some 35 postgraduate Fellowships and Scholarships a year, for advanced study and research in science, engineering, the built environment and design. It also makes a small number of Special Awards to support projects consistent with its overall aims. Many of these are focused on raising the awareness of the young to the opportunities presented by science and engineering.

More information can be found at www.royalcommission1851.org

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