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Press Announcement

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Weibel Scientific launches new radar technology for Copenhagen Suborbitals

Weibel Scientific launches a newly developed transponder, which, together with Weibel Scientific's Doppler radars, is setting new standards of safety and accuracy in radar measurements. With the launch of the transponder, Weibel Scientific is challenging the extensively used pulse radar technology used for space launches, thus obtaining substantial competitive advantages in new markets.

Weibel Scientific A/S is testing the newly developed transponder together with the Weibel MF-CW Doppler radar, which Copenhagen Suborbitals is using in the test launch in September. When Copenhagen Suborbitals sends up the first Danish manned space flight, the transponder together with the Doppler radar will increase safety surrounding the launch.

"Copenhagen Suborbitals is enabling us to test a whole new technology, so we can market ourselves to the likes of NASA, JAXA (The Japanese Space Agency) and CNES (The French Space Agency). We have already sold transponders to France, but they are only being used on the ground and have not yet been tested in space. This is pioneering technology, which will mean new growth opportunities for Weibel Scientific as the world's leading Doppler radar producer," says CEO Peder R. Pedersen, Weibel Scientific.

The transponder developed by Weibel Scientific sends back its signal to Weibel Scientific's own inhouse developed MF-CW Doppler radar, thus increasing the signal strength, safety and accuracy of the hi-tech Doppler radar measurements.

"So far it has not been possible to use the transponder technology together with Doppler radars. For example, NASA uses our radar, but without transponders. As a result, up to now NASA has had to use pulse radars with a transponder. Our new technology is vastly superior to pulse radar, both in terms of accuracy and safety, and therefore we can offer NASA and other space agencies the best of both worlds," says CEO Peder R. Pedersen, Weibel Scientific.

When launching rockets, safety is the paramount consideration. If the rocket changes course it is crucial for the control room to receive this information as accurately as possible. With the new technology Weibel Scientific can measure

the rocket's position and speed much more precisely than the competing technologies.

NASA has used Weibel's Doppler radars to detect whether parts of the space vehicle detach themselves damaging it during the launch, but NASA has not used the radars to measure the exact position and course of the vehicle throughout the entire launch. It is crucial to safety that the accuracy surrounding launches is improved, as the result may be catastrophic if the rocket is not on the right course. Monitoring can be made even more precise and accurate with the newly developed Danish transponder.

"We have developed a transponder which has so far been the missing link preventing us from competing with the pulse radars. The new transponder constitutes enormous potential for Weibel Scientific because it will give us opportunities to break into markets where pulse radar has previously reigned supreme. We will, so to speak, be able to beat them on their own home ground," says CEO Peder R. Pedersen of Weibel Scientific.

The transponder can be used in space rockets, aircraft, helicopters, satellites and drones.

About the test Launch

From August 30 to September 17, the rocket HEAT-1X/Tycho Brahe will be test launched from the Baltic Sea next to the Danish island Bornholm. The length of the rocket is nine meter, it weighs 1.6 tons, and will be launched into the stratosphere with a speed of 2.000 km/hour. The spaceship is carried by a hybrid rocket fuelled with oxygen and synthetic rubber. A crash test dummy will be placed in the spaceship – at the actual launch it will be replaced by a human being – namely one of the founders of Copenhagen Suborbitals.

About Copenhagen Suborbitals

Copenhagen Suborbitals is a Danish non-profit organization with a simple mission: To launch a one-manned spacecraft into space. If they succeed, Denmark will be the world's fourth largest space nation that sends a human being into space, only exceeded by U.S.A., Russia, and China. Moreover, Copenhagen Suborbitals will be the world's first non-professionals to launch a manned spacecraft into space.

The organization was established May 2008 by Kristian von Bengtson and Peter Madsen, and is supported by professional sponsors and skilled and dedicated volunteers. Read more at www.copenhagensuborbitals.com.

Additional information**Copenhagen Suborbitals**

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Pictures

www.copenhagensuborbitals.com/press/CS_Aug30_presskit.zip

About Weibel Scientific

Weibel Scientific is a Danish producer and exporter of high-technology radar systems for use in space research, the aerospace industry, defense and the police. The radar systems are sold primarily to public-sector authorities and the bulk of sales go to export markets. This Danish production and export company is a world leader in the development of Doppler radar systems. The various types of radar systems are developed and produced by 35 staff consisting primarily of engineers. Weibel has been supplying testing equipment for over 50 years and has invested more than USD 10 million in research and development in Denmark.

Further information at www.weibel.dk.