

FRAUNHOFER HEINRICH HERTZ INSTITUTE

# PRESS RELEASE

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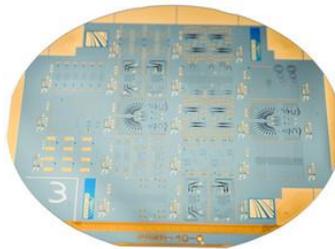
## Fraunhofer HHI at Laser World of Photonics, June 26-29, 2017, Munich, Germany

**At this year's Laser World of Photonics, Fraunhofer Heinrich Hertz Institute HHI presents its latest developments in Photonic Components, Systems and Networks.**

You find the following highlights at Fraunhofer booth 350, Hall B2:

### **Generic InP Foundry Technology – An InP technology to cover a vast variety of monolithic or hybrid integration solutions**

Fraunhofer HHI fabricates individual photonic integrated circuits. Fraunhofer HHI offers an InP platform that integrates receivers (40GHz), transmitters (20GHz) and (1dB/cm) passive components. Partners offer services for design work and packaging.



### **Hybrid PICs – The best of all worlds**

Fraunhofer HHI's hybrid integration platform Poly-Board allows for rapid prototyping, short iteration cycles and low upfront development effort. The technology allows the integration of on-chip free space elements, 3D structures, graphene-based electro-absorption modulators, as well as other optical functionalities such as switches, variable optical attenuators, tunable lasers, and flexible high frequency and optical interconnects. The services of Fraunhofer HHI include simulation, CAD, technology development, device manufacturing, characterization, and qualification.



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## Terahertz sensing – Non-destructive, contact free measurements with Terahertz

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Terahertz radiation is increasingly employed in industrial environments for process monitoring and material inspection. The layer thickness of coatings, the structure of polymer components or imperfections in non-conductive materials can be investigated. In addition, THz spectroscopy allows for the detection of (toxic) gases.



Innovations for the digital society of the future are the focus of research and development work at the **Fraunhofer Heinrich Hertz Institute HHI**. In this area, Fraunhofer HHI is a world leader in the development for mobile and optical communication networks and systems as well as processing and coding of video signals. Together with international partners from research and industry, Fraunhofer HHI works in the whole spectrum of digital infrastructure – from fundamental research to the development of prototypes and solutions. [www.hhi.fraunhofer.de](http://www.hhi.fraunhofer.de)

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The Fraunhofer-Gesellschaft is the leading organization for applied research in Europe. Its research activities are conducted by 69 Fraunhofer Institutes and research units at locations throughout Germany. The Fraunhofer-Gesellschaft employs a staff of some 24,500, who work with an annual research budget totaling 2.1 billion euros. Of this sum, 1.9 billion euros is generated through contract research. More than 70 percent of the Fraunhofer-Gesellschaft's contract research revenue is derived from contracts with industry and from publicly financed research projects. International collaborations with excellent research partners and innovative companies around the world ensure direct access to regions of the greatest importance to present and future scientific progress and economic development.

Press Contact: **Anne Rommel** | [anne.rommel@hhi.fraunhofer.de](mailto:anne.rommel@hhi.fraunhofer.de) | phone +49 30 31002 353  
Technical Contact: **Jörn Falk** | [joern.falk@hhi.fraunhofer.de](mailto:joern.falk@hhi.fraunhofer.de) | phone +49 30 31002 275