



# IWMSE

International Workshop on  
Magnetron Sputter Epitaxy

## Program

<b>1:00 PM</b>	1:05 PM	Talk 1	<b>Introduction to IWMSE</b>	Session Chair (A.Hinz/A.Žukauskaitė)	Kyoto Fusioneering/ Fraunhofer FEP
<b>1:05 PM</b>	1:45 PM	Talk 2	<b>Device and Process Technology for GaN Power Transistors: Perspective of Automotive Applications</b>	Dr. Jens Baringhaus	Robert Bosch GmbH, Reutlingen, Germany
<b>1:45 PM</b>	2:05 PM	Talk 3	<b>Growth and Study of Epitaxial Metal Nitride Thin Films using Reactive Magnetron Sputtering</b>	Dr. Mukul Gupta	UGC-DAE Consortium for Scientific Research, Indore, India
<b>2:05 PM</b>	2:25 PM	Talk 4	<b>Ferroelectricity in undoped AlN enabled by sputter-epitaxy</b>	Georg Schönweger	Kiel University, Germany
<b>2:25 PM</b>	2:45 PM	Talk 5	<b>Comparison of sputtered and MOVPE grown TiN</b>	Dr. Florian Hörich	Otto-von-Guericke University Magdeburg, Germany
<b>2:45 PM</b>	3:00 PM	Coffee break			
<b>3:00 PM</b>	3:20 PM	Talk 6	<b>Effects of W alloying on the electronic structure, phase stability and thermoelectric power factor in epitaxial CrN thin films</b>	Niraj Singh	Uppsala University, Sweden
<b>3:20 PM</b>	3:40 PM	Talk 7	<b>Scaled MSE of Group III Nitrides</b>	Valentin Garbe	Fraunhofer FEP, Dresden, Germany
<b>3:40 PM</b>	4:00 PM	Talk 8	<b>Sputter-epitaxy of Ternary Nitride MgTa<sub>2</sub>N<sub>3</sub></b>	Baptiste Julien	NREL, USA
<b>4:00 PM</b>	4:20 PM	Talk 9	<b>Formation and avoidance of {111} oriented domains during the sputtering epitaxy growth of Ir(001) films on YSZ/Si(001)</b>	Dr. Jürgen Weippert	Fraunhofer IAF, Freiburg, Germany
<b>4:20 PM</b>	4:40 PM	Talk 10	<b>Structural and electrical properties of molybdenum thin films prepared by magnetron sputter epitaxy</b>	Balasubramanian Sundarapandian	Fraunhofer IAF, Freiburg, Germany
<b>4:40 PM</b>	5:00 PM	Talk 11	<b>Effect of substrate bias on the growth behavior of iridium on A-plane sapphire using radio frequency sputtering</b>	Dr. Frank Meyer	Fraunhofer IWM, Freiburg, Germany
<b>5:00 PM</b>	5:20 PM	Talk 12	<b>Closing remarks</b>	Session Chair (A.Hinz/A.Žukauskaitė)	