

## Section Thin Films Fachverband Dünne Schichten (DS)

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### Overview of Invited Talks and Sessions

(lecture rooms H32 and H34; Poster B)

#### Invited Talks

DS 8.1	Mon	14:30–15:15	H34	<b>Processing, properties and application potential of nanostructured hard coatings</b> — ●PAUL MAYRHOFER
DS 11.1	Tue	9:30–10:00	H32	<b>Strained silicon for advanced nanotechnology</b> — ●MICHAEL GORYLL, DAN BUCA, QING-TAI ZHAO, BERND HOLLÄNDER, SIEGFRIED MANTL, ROGER LOO, DUY NGUYEN, MANFRED REICHE
DS 11.2	Tue	10:00–10:30	H32	<b>Integration of functional epitaxial oxides into silicon: From high-K application to nanostructures</b> — ●H. JÖRG OSTEN
DS 11.3	Tue	10:30–11:00	H32	<b>Rare Earth based amorphous ternary oxide layers as alternative gate dielectrics</b> — ●JÜRGEN SCHUBERT, TASSILO HEEG, MARTIN ROECKERATH, JOAO MARCELO JORDAO LOPES, UFFE LITTMARK, CHAO ZHAO, MATTY CAYMAX, VALERIE AVANASIEV, LISA EDGE, YUNFA JIA, WEI TIAN, DARRELL SCHLOM
DS 11.4	Tue	11:00–11:30	H32	<b>Advanced SOI CMOS transistors for high performance microprocessors</b> — ●MANFRED HORSTMANN
DS 11.6	Tue	11:45–12:15	H32	<b>Graphene: A new Electronic Material</b> — ●MAX CHRISTIAN LEMME, TIM ECHTERMAYER, MATTHIAS BAUS, HEINRICH KURZ
DS 11.7	Tue	12:15–12:45	H32	<b>Electronic Transport in Carbon Nanotube FETs</b> — ●JOACHIM KNOCH
DS 12.1	Tue	14:30–15:15	H34	<b>Surface Analytics with Monolayer Resolution using Ions</b> — ●PEDRO GRANDE, AGENOR HENTZ, RAFAEL PEZZI, ISRAEL BAUMVOL, GREGOR SCHIWETZ
DS 18.1	Wed	15:00–15:30	H34	<b>Analysis of protein layer structure using real-time ellipsometry</b> — ●HANS ARWIN
DS 18.2	Wed	15:30–16:00	H34	<b>Optical Spectroscopy with high Spatial Resolution</b> — ●WOLFGANG RICHTER, EUGEN SPEISER, BENJAMIN BUICK, SILVANO DEL GOBBO
DS 18.3	Wed	16:00–16:30	H34	<b>Surface enhanced Raman spectroscopy as a probe for studying metal/organic interfaces</b> — ●GEORGETA SALVAN, DIETRICH ZAHN
DS 18.4	Wed	16:30–17:00	H34	<b>In-situ monitoring of stress evolution in growing group-III-nitride layers</b> — ●ALOIS KROST, ARMIN DADGAR, RAINER CLOS, GUNTHER STRASSBURGER, FABIAN SCHULZE
DS 19.1	Wed	17:15–17:45	H34	<b>Optical in-situ diagnostics of device growth in MOVPE</b> — ●MARTIN ZORN, FRANK BRUNNER, THOMAS ZETTLER, MARKUS WEYERS
DS 19.2	Wed	17:45–18:15	H34	<b>In-situ investigations of electronic and structural properties of Si surfaces during electrochemical surface functionalization</b> — ●JÖRG RAPPICH, FLORENT YANG, KATY ROODENKO, ALEX GÜELL, CARL MATTHIAS INTEL-MANN, THOMAS DITTRICH, KARSTEN HINRICHS
DS 19.3	Wed	18:15–18:45	H34	<b>Water at model membranes: structure, dynamics and biomolecular sensing</b> — ●MISCHA BONN
DS 21.1	Thu	11:15–12:00	H32	<b>Growth morphology evolution in real time and real space</b> — ●JOACHIM KRUG
DS 21.2	Thu	12:00–12:45	H32	<b>Growing metals on silicon surfaces - STM study in-vivo</b> — ●IVAN OŠTÁDAL, PAVEL SOBOTÍK, PAVEL KOCÁN, JAN PUDL

DS 22.1	Thu	9:30–10:00	H34	<b>Grain Growth and Film Growth observed with Real-time, in-situ STM</b> — ●MARCEL J. ROST
DS 25.1	Thu	15:00–15:45	H32	<b>Pentacene thin film growth</b> — ●GEORGE MALLIARAS
DS 25.4	Thu	16:15–17:00	H32	<b>Growth, Interface Formation and Electron Dynamics of Pentacene Thin Films</b> — ●FRANK MEYER ZU HERINGDORF
DS 25.7	Thu	17:30–18:15	H32	<b>Charge Injection across Self-Assembly Monolayers in Organic Field Effect Transistors: Odd-Even Effects</b> — ●FABIO BISCARINI, PABLO STOLIAR, RAJENDRA KSHIRSAGAR, MASSIMILIANO MASSI, PAOLO ANNIBALE, CRISTIANO ALBONETTI, DAGO DE LEEUW

### Invited Talk in Section Surface Physics

O 3.1	Mon	10:15–11:00	H36	<b>Some aspects of chirality in molecules adsorbed at metal surfaces</b> — ●NEVILLE RICHARDSON
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### Prize Talk of the Gaede Prize Winner

O 37.1	Wed	14:00–14:45	H36	<b>Gallium-Nitride-on-Silicon: Mission possible!</b> — ●ARMIN DADGAR
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### Invited talks of the joint symposium SYSE

See SYSE for the full program of the Symposium.

SYSE 1.1	Mon	14:30–15:00	H1	<b>Wavy and Buckled Nanoribbons and Nanotubes: Mechanics and Applications</b> — ●JOHN ROGERS
SYSE 2.1	Mon	16:15–16:45	H1	<b>Enhancing Ferroelectrics and Multiferroics using Strain</b> — ●D.G. SCHLOM, M.D. BIEGALSKI, A. SOUKIASSIAN, J.H. HAENI, J.H. LEE, R.W. ULBRICHT, C.M. BROOKS, Y. JIA, V. VAITHYANATHAN, W. TIAN, X. KE, D.A. TENNE, A.V. RAO, A. KUMAR, L. TIAN, A. SHARAN, S. CHOUDHURY, Y.L. LI, P. SCHIFFER, S. TROLIER-MCKINSTRY, X.X. XI, V. GOPALAN, L.Q. CHEN, K.J. CHOI, D.M. KIM, C.B. EOM, Y.B. CHEN, H.P. SUN, X.Q. PAN, D.D. FONG, M.A. ZURBUCHEN, J.A. EASTMAN, P.H. FUOSS, S.K. STREIFFER, P. IRVIN, J. LEVY, W. CHANG, S.W. KIRCHOEFER, T. HEEG, J. SCHUBERT, A. BRUCHHAUSEN, N.D. LANZILLOTTI-KIMURA, A. FAINSTEIN, R.S. KATIYAR, A. CANTARERO, M.E. HAWLEY, Q.X. JIA, C.J. FENNIE, S.M. NAKHMANSON, K.M. RABE, A.K. TAGANTSEV, B. VELICKOV, R. UECKER, P. REICHE
SYSE 2.3	Mon	17:00–17:30	H1	<b>Patterning ferroelectric nanostructures by epitaxial strain</b> — ●HO NYUNG LEE, MATTHEW CHISHOLM
SYSE 2.4	Mon	17:30–18:00	H1	<b>Curl in Photonic Crystals Induced by Drying Stresses upon Sol-Gel Infiltration</b> — ●VLADIMIR KITAEV, EVANGELLOS VEKRIS, GEOFFREY OZIN

### Invited talks of the joint symposium SYOE

See SYOE for the full program of the Symposium.

SYOE 4.1	Tue	9:30–10:15	H1	<b>Vapor and Solution Deposited Small Molecule Organic Thin Film Transistors</b> — ●THOMAS JACKSON
SYOE 5.1	Tue	11:15–12:00	H1	<b>Organic electronic devices and their applications</b> — ●PAUL HEREMANS
SYOE 6.1	Tue	14:30–15:15	H32	<b>Theory of polymer devices: OFETs and OLEDs</b> — ●REINDER COEHOORN
SYOE 7.1	Tue	16:30–17:15	H32	<b>Electronic spectrum and spin states of a single organic molecule</b> — ●HERRE VAN DER ZANT
SYOE 10.1	Wed	16:45–17:30	H32	<b>Single grain contacts</b> — ●GREGOR WITTE

**Invited talks of the joint symposium SYBM**

See SYBM for the full program of the Symposium.

SYBM 1.1	Thu	9:30–10:00	H1	<b>Using Ice to Mimic Nacre: From Structural Materials to Artificial Bone</b> — •A. P. TOMSIA, S. DEVILLE, E. SAIZ
SYBM 1.2	Thu	10:00–10:30	H1	<b>On the structure of biogenic CaCO<sub>3</sub></b> — •B. POKROY
SYBM 1.3	Thu	10:30–11:00	H1	<b>Bio-Inspired Hybrid Materials from Block Copolymer Assemblies and Nanoparticle Co-assemblies</b> — •U. WIESNER
SYBM 1.4	Thu	11:15–11:45	H1	<b>Bio-Inspired Organic-inorganic Hybrid Materials</b> — •U. STEINER
SYBM 1.5	Thu	11:45–12:15	H1	<b>Structural, Nanomechanical, and Nanotribological Characterization of Human Hair Using Atomic Force Microscopy and Nanoindentation</b> — •BHARAT BHUSHAN

**Sessions**

DS 1.1–1.6	Mon	9:30–11:00	H32	<b>Organic Thin Films I</b>
DS 2.1–2.7	Mon	11:15–13:00	H32	<b>Organic Thin Films II</b>
DS 3.1–3.6	Mon	9:30–11:00	H34	<b>Metal Layers and Multilayers</b>
DS 4.1–4.6	Mon	11:15–12:45	H34	<b>Nanoengineered Thin Films</b>
DS 5.1–5.5	Mon	14:30–15:45	H32	<b>Organic Interfaces (SYOE 1)</b>
DS 6.1–6.7	Mon	16:00–17:45	H32	<b>Organic Photovoltaics (SYOE 2)</b>
DS 7.1–7.4	Mon	18:00–19:00	H32	<b>Organic Film Aging (SYOE 3)</b>
DS 8.1–8.1	Mon	14:30–15:15	H34	<b>Hard Coatings I</b>
DS 9.1–9.7	Mon	15:15–17:00	H34	<b>Hard Coatings II</b>
DS 10.1–10.7	Mon	17:15–19:00	H34	<b>Layers with Magnetic Properties</b>
DS 11.1–11.9	Tue	9:30–13:15	H32	<b>Symposium: New Materials for Nanoelectronics</b>
DS 12.1–12.1	Tue	14:30–15:15	H34	<b>Thin Film Analytics I</b>
DS 13.1–13.5	Tue	15:15–16:30	H34	<b>Thin Film Analytics II</b>
DS 14.1–14.5	Tue	16:45–18:00	H34	<b>Thin Film Analytics III</b>
DS 15.1–15.66	Tue	15:00–17:00	Poster B	<b>Poster Session</b>
DS 16.1–16.8	Wed	14:30–16:30	H32	<b>Organic Light Emitting Diodes (SYOE 9)</b>
DS 17.1–17.6	Wed	16:45–18:45	H32	<b>Contact Properties (SYOE 10)</b>
DS 18.1–18.4	Wed	15:00–17:00	H34	<b>Symposium: In situ Optics I</b>
DS 19.1–19.3	Wed	17:15–18:45	H34	<b>Symposium: In situ Optics II</b>
DS 20.1–20.6	Thu	9:30–11:00	H32	<b>Symposium: Real Time Growth Studies I</b>
DS 21.1–21.2	Thu	11:15–12:45	H32	<b>Symposium: Real Time Growth Studies II</b>
DS 22.1–22.1	Thu	9:30–10:00	H34	<b>In situ STM</b>
DS 23.1–23.4	Thu	10:00–11:00	H34	<b>Symposium: In situ Optics III</b>
DS 24.1–24.8	Thu	11:15–13:15	H34	<b>Ion Beam Techniques</b>
DS 25.1–25.8	Thu	15:00–18:30	H32	<b>Symposium: Real Time Growth Studies III</b>
DS 26.1–26.11	Thu	15:00–17:45	H34	<b>Oxides</b>
DS 27.1–27.7	Fri	9:30–11:15	H32	<b>Polymer and Composite Films</b>
DS 28.1–28.5	Fri	11:30–12:45	H32	<b>Silicon Thin Films and Interfaces</b>

**Mitgliederversammlung des Fachverbands Dünne Schichten**

Mittwoch 18:45–19:15 H34

**Mitgliederversammlung der Deutschen Vakuumgesellschaft**

Mittwoch 19:15–19:45 H34