

Monday, June 28

8.30 Welcome

8.40 Plenary talk

Invited Talk: *Oxides beyond SiO₂ for Microelectronics*

D. Schlom

Department of Materials Science and Engineering, Cornell University, Ithaca, New York

1.4 Emerging dielectric materials

Chair: T. Schröder

9.10 **Invited Talk: *Giant electroresistance and electrical control of spin-polarization with ferroelectric tunnel barriers***

M. Bibes¹, V. Garcia^{1,2}, S. Fusil¹, K. Bouzehouane¹, C. Deranlot¹, L. Bocher³, Sh. Enouz-Vedrenne³, A. Gloter³, D. Imhoff³, N. Mathur², A. Barthélémy¹

1 - Unité Mixte de Physique CNRS/Thales, Université Paris-Sud, Orsay, France.

2 - Department of Materials Science, University of Cambridge, UK

3 - Laboratoire de Physiques des Solides, Université Paris Sud, CNRS UMR Orsay, France

4 - Thales Research & Technology, Palaiseau, France

9.40 **Invited Talk: *Electrical properties and nanodomain structure of ferroelectric/paraelectric superlattices***

P. Zubko, N. Stucki, C. Lichtensteiger, J.-M. Triscone

DPMC, University of Geneva 24, Switzerland

10.10 ***Spectroscopic detection of spin-polarized bands and hopping-induced mixed valency in metallic GdSc_{1-x}Ti_xO₃ perovskite alloys with x = 0.18 and 0.25: spin alignment differences in nano-grain and single crystal epitaxial thin films***

G. Lucovsky¹, L. Miotti¹, K. Paz Bastos¹, C. Adamo², D. G. Schlom^{2,3}

1 - North Carolina State University, Raleigh, NC, USA

2 - Penn State University, State College, PA, USA

3 - Cornell University, Ithaca, NY, USA

10.30 ***Determination of the energy band structure of TiN/GdSiO/Si MOS capacitors***

H.D.B Gottlob¹, H.M. Przewłocki², and H. Kurz¹

1- Advanced Microelectronic Center Aachen (AMICA), AMO GmbH, Aachen, Germany

2- Institute of Electron Technology, Warsaw, Poland

10.50 - 11.20 **Break**

Monday, June 28

1.2 Advanced technologies for thin dielectric film growth

Chair: C. Kügeler

- 11.20** **Invited Talk: Atomic layer deposition of high-k oxides – an overview of current state and challenges**
- M. Ritala**, J. Niinistö, K. Kukli and M. Leskelä
Department of Chemistry, University of Helsinki, Finland
- 11.50** **Atomic layer deposition of HfO₂ and Al₂O₃ films on 300 mm Si wafers for gate stack technology**
- R. Lupták**¹, J.M.J. Lopes¹, St. Lenk¹, B. Holländer¹, E. Durgun Özben¹, A.T. Tiedemann¹, M. Schnee¹, U. Breuer², A. Besmehn², P.K. Baumann³, M. Heuken³, J. Schubert¹ and S. Mantl¹
- 1 - Institute for Bio- and Nanosystems (IBN1-IT) and JARAFIT, Research Center Jülich, Germany*
2 - Central Division of Analytical Chemistry (ZCH), Research Center Jülich, Germany
3 - AIXTRON AG, Herzogenrath, Germany
- 12.10** **Effect of RE³⁺ cation size on properties of rare earth scandate films deposited by ALD**
- M. Putkonen**^{1,2}, P. Myllymäki², L. Niinistö², M. Roeckerath³, J.M. Lopes³, J. Schubert³, K. Mizohata⁴
- 1 - Beneq Oy, Vantaa, Finland.*
2 - Laboratory of Inorganic Chemistry, Aalto University School of Science and Technology Aalto, Espoo, Finland.
3 - Institute of Bio and Nanosystems, JARA-Fundamentals of Future Information Technologies, Research Centre Jülich, Germany.
4 - Division of Materials Physics, Department of Physics, University of Helsinki, Finland
- 12.30 - 14.00** **Lunch**

Monday, June 28

2.1 High-k dielectrics on Si

Chair: A.C. Kummel

14.00 **Invited Talk: *Plenty of room at the bottom: scaling the high-k/silicon interfacial layer***

M. M. Frank¹, T. Ando¹, K. Choi², Ch. Choi¹, J. Bruley¹, Ch. Marchiori³, J. Fompeyrine³, V. Narayanan¹

1 - IBM T.J. Watson Research Center, Yorktown Heights, NY, USA

2 - GLOBALFOUNDRIES Inc., Yorktown Heights, NY, USA

3 - IBM Research GmbH, Zürich Research Laboratory, Rüschlikon, Switzerland

14.30 ***Microstructure, bonding states and band alignment of the (Tb_xSc_{1-x})₂O₃/Si system***

I. Geppert¹, M. Eizenberg¹, N. A. Bojarczuk², and S. Guha²

1 - Dpt. of Materials Engineering, Technion - Israel Institute of Technology, Haifa, Israel

2 - IBM Research Division, Yorktown Heights, New York

14.50 ***The onset of electrical stress in 3nm and 6nm molecular beam deposited LaLuO₃ MOSCAPs on n-Si(100) substrates using a TiN metal gate and Al back contact***

Y. Lai¹, S. Monaghan¹, K. Cherkaoui¹, H. D. B. Gottlob², M. Schmidt², J. Schubert³, J. M. J. Lopes³, and P. K. Hurley¹

1 - Tyndall National Institute, University College Cork, Lee Maltings, Cork, Ireland

2 - AMO GmbH, AMICA, Aachen, Germany

3 - Institute of Bio and Nanosystems, JARA, Research Centre Jülich, Jülich, Germany

2.3 High-k/metal gate stack, characterisation, scaling, stability

15.10 ***Rare-earth based oxides/TiN gate stacks on high mobility strained SOI for fully depleted (FD) MOSFETs***

E. Durğun Özben¹, J. M. J. Lopes¹, A. Nichau¹, R. Lupták¹, S. Lenk¹, A. Besmehn², K. K. Bourdelle³, Q.-T. Zhao¹, J. Schubert¹ and S. Mantl¹

¹Institute for Bio- and Nanosystems (IBNI-IT) and JARA-FIT, Research Center Jülich, Germany

²Central Division of Analytical Chemistry (ZCH), Research Center Jülich, Germany

³SOITEC S.A., Parc Technologique des Fontaines, Bernin, France

15.30 ***Trapping in GdSiO high-k films***

R. Rao¹, R. Simoncini¹, H. D. B. Gottlob², M. Schmidt², F. Irrera¹

1 – Sapienza Università di Roma, Electronics Department and IU.NET

2 – Advanced Microelectronic Center Aachen, AMO GmbH, Aachen, Germany

15.50 ***Electrical characterization of high-k based MIS structures with negative resistance effect in I-V characteristics***

A. Gómez¹, H. Castán¹, H. García¹, S. Dueñas¹, L. Bailón¹, F. Campabadal², J. M. Rafí² and M. Zabala²

1 - Department of Electronics, University of Valladolid, E.T.S.I. Telecomunicación,

2 - Centro Nacional de Microelectrónica. Instituto de Microelectrónica Barcelona, Spain

16.10 - 16.40 **Break**

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2.4 Defect characterisation, engineering of dielectrics, leakage currents

Chair: T. Hashizume

- 16.40** **Invited Talk: *Traps and trapping phenomena and their implications on electrical behavior of high-k capacitor stacks***
A. Paskaleva¹, M. Lemberger², E. Atanassova¹, A. J. Bauer²
1 - Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria
2 - Fraunhofer Institute for Integrated Systems and Device Technology, Erlangen, Germany
- 17.10** ***Temperature dependence of the emission and capture times of SiON individual traps after positive bias temperature stress***
M. Toledano-Luque¹, B. Kaczer¹, Ph. Roussel¹, T. Grasser³, and G. Groeseneken¹
1 - Imec, Leuven, Belgium, 2 - UCM, Madrid, Spain, 3 - TU Wien, Austria
- 17.30** ***Capture cross sections for holes at LaLuO/Si interfaces***
O. Engström¹, F. Ducroquet², B. Raeissi¹, J. Schubert³, J. M. J Lopes³, H. D. B. Gottlob⁴
1 – Department of Microtechnology and Nanosci, Chalmers Univ Technology, Göteborg
2 – Minatec, IMEP-LAHC, Grenoble
3 - Institute of Bio and Nanosystems, JARA, Research Centre Juelich,
4 – Advanced Microelectronic Center Aachen, AMO GmbH, Aachen
- 17.50** ***Defects in low-κ dielectrics and etch stop layers for use as interlayer dielectrics in ULSI***
B.C. Bittel¹, P.M. Lenahan¹, S. King²
1 – The Pennsylvania State University, 2 – Intel Corporation
- 18.10** ***Analysis of the effect germanium preamorphisation on interface defects and leakage current for high-k MOSFET***
G. Roll¹, S. Jakschik¹, M. Goldbach², A. Wachowiak¹, T. Mikolajick^{1,3}, L. Frey⁴
1 – Namlab gGmbH, Dresden, Germany
2 – Qimonda Dresden GmbH&Co. OHG, Dresden, Germany
3 – University of Dresden, Germany
4 – Fraunhofer IISB, Erlangen, Germany

1.5 New device approaches

18.30 *Modelling of tunneling through a three-layer gate stack with/without a quantum well*

A. Mazurak, J. Walczak, and B. Majkusiak

Institute of Microelectronics and Optoelectronics, Warsaw Univ. Technology, Poland

18.50 *Properties of SiO_2 and Si_3N_4 as gate dielectrics for printed ZnO transistors*

S. Walther¹, S. Polster¹, B. Meyer¹, M.P.M. Jank², H. Ryssel^{1,2}, L. Frey^{1,2}

1 Chair of Electron Devices, University of Erlangen-Nuremberg, Erlangen, Germany

2 Fraunhofer Institute for Integrated Systems and Device Technology, Erlangen, Germany

19.10 **Poster session**

20.00 **Dinner**

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2.2 High-k dielectrics on high mobility semiconductors: Ge

Chair: G. Lucovsky

8.00 **Invited Talk: *Dielectrics on high mobility substrates for aggressively scaled CMOS***

A. Dimoulas, D. Tsoutsou, G. Mavrou, Y. Panayiotatos, S. F. Galata, E. Golias, A. Sotiropoulos

MBE laboratory, Institute of Materials Science, NCSR DEMOKRITOS, Athens, Greece

8.30 ***Ge SB-p-MOSFETs with ALD ZrO₂/La₂O₃ dielectrics***

C. Henkel, S. Abermann, O. Bethge, G. Pozzovivo, and E. Bertagnoli

Institute for Solid State Electronics, Vienna, 1040 Austria

8.50 ***Epitaxial growth of Dy₂O₃ films on Ge(100) and SrTiO₃(100) substrates by molecular beam epitaxy***

Md. N. K. Bhuiyan¹, M. Menghini¹, J. W. Seo², J.-P. Locquet¹, Ch. Marchiori³

1 – Department of Physics and Astronomy, Katholieke Universiteit Leuven, Belgium

2 - Department of Metallurgy and Materials Engineering, Katholieke Universiteit Leuven

3 – IBM Research GmbH, Zurich Research Laboratory, Rueschlikon, Switzerland

2.2 High-k dielectrics on high mobility semiconductors: III-N

9.10 **Invited Talk: *Interface control technologies of GaN-based MOS structures for high-efficiency power switching transistors***

T. Hashizume, Y. Hori and C. Mizue

*Research Center for Integrated Quantum Electronics (RCIQE), Hokkaido University, Japan
JST-CREST*

9.40 ***Design rules of gate dielectric for GaN-based MIS-devices and performance of Al₂O₃/AlGaIn/GaN and Al₂O₃/InAlN/GaN MOSHFETs***

P. Kordoš^{1,2}, R. Stoklas¹, M. Mikulics³, D. Gregušová¹, A. Fox³, K. Čičo¹, J. Novák¹, and K. Fröhlich¹

1 – Institute of Electrical Engineering, Slovak Academy of Sciences, Bratislava, Slovakia

2 – Department of Microelectronics, University of Technology, Bratislava, Slovakia

3 – Institute of Bio- and Nanosystems (IBN-1), Research Centre Jülich, Germany

10.00

C-V characterization of ALD- Al_2O_3 insulated gates on AlGaIn/GaN structure

Ch. Mizue¹ and T. Hashizume^{1,2}

1 – Research Center for Integrated Quantum Electronics (RCIQE), Hokkaido University, Sapporo, Japan

2 – JST-CREST

10.20 - 10.50

Break

Tuesday, June 29

2.2 High-k dielectrics on high mobility semiconductors: III-V

Chair: M.M. Frank

- 10.50** **Invited Talk: *Correlations between atomic and electronic structure of monolayer nucleation and unpinning of a compound semiconductor surface during atomic layer deposition***
J. B. Clemens¹, E. A. Chagarov¹, M. Holland², R. Droopad³, J. Shen¹ and A. C. Kummel¹
1 Dept. of Chem. and Biochem., Univ. of California, San Diego, La Jolla, California
2 Dept of Electronics & Electrical Engineering, University of Glasgow, Scotland, U.K.
3 Dept of Physics, Texas State University-San Marcos, Texas, U.S.A.
- 11.20** ***Improved Capacitance-voltage characteristics of MOS capacitors on unpassivated GaAs incorporating a PECVD deposited Si₃N₄ dielectric layer***
E. O'Connor, S. Monaghan, V. Djara, P. K. Hurley, and K. Cherkaoui
Tyndall National Institute, University College Cork, Ireland
- 11.40** ***Effect of processing of W gate on the quality of MOS capacitors on GaAs***
D. J. Webb, C. Marchiori, D. Caimi, C. Rossel, M. Richter, M. Sousa, C. Gerl, C. Andersson, and J. Fompeyrine
IBM Research-Zurich, 8803 Rüschlikon, Switzerland
- 12.00** ***Electrical characterisation of Pd/HfO₂ MOSCAPs with/without a thin Al₂O₃ or MgO interface control layer deposited on GaAs or In_{0.53}Ga_{0.47}As/InP by ALD***
A. O'Mahony¹, S. Monaghan¹, R. Chiodo^{1,2}, I. M. Povey¹, A. Blake¹, K. Cherkaoui¹, É. O'Connor¹, R. E. Nagle¹, R. D. Long¹, V. Djara¹, D. O'Connell¹, S. B. Newcomb³, F. Crupi², P. K. Hurley¹ and M. E. Pemble¹
1 - Tyndall National Institute, University College Cork, Ireland
2 - Università della Calabria, Arcavacata di Rende (CS), Italy
3 - Glebe Scientific Ltd., Glebe Laboratories, Newport, Ireland
- 12.20** ***Modeling the CV response of high-k/III-V systems: GaAs, In_{0.53}Ga_{0.47}As and InAs***
T. O'Regan and P. K. Hurley
1 - Tyndall National Institute, University College Cork, Ireland
- 13.00 - 14.30** **Lunch**
- 14.30 - 19.00** **Social event - trip**

Wednesday, June 30

1.1 Theory of dielectric materials

Chair: M. Ritala

- 8.00** **Invited Talk: *Charge transfer multiplet theory and Tanabe-Sugano multiplet energy level diagrams applied to: (i) band edge electronic states, and (ii) O-atom vacancy defects in transition metal oxide gate dielectrics***

G. Lucovsky, L. Miotti, and K. Paz Bastos

North Carolina State University, Raleigh, USA

- 8.30** ***Multi-phonon hole-trapping from first-principles***

F. Schanovsky, W. Gös, and T. Grasser

CDL for TCAD, Institute for Microelectronics, TU Wien, Austria

2.5 Electrical characterisation and reliability of devices with alternative dielectrics

- 8.50** **Invited Talk: *Recent trends in bias temperature instability***

B. Kaczer¹, T. Grasser², J. Franco^{1,3}, M. Toledano-Luque^{1,4}, Ph. J. Roussel¹, G. Groeseneken^{1,3}

1 – IMEC, 2 – TU Wien, 3 – KU Leuven, 4 – UC Madrid,

- 9.20** ***Dielectric BD in polycrystalline HfO₂ gate dielectrics investigated by CAFM***

V. Iglesias¹, M. Porti¹, M. Nafría¹, X. Aymerich¹, , P. Dudek², G. Bersuker³

1 - Dept. Eng. Elect., Edifici Q, Universitat Autònoma de Barcelona, Spain

2- Innovations for High Performance Microelectronics (IHP), Frankfurt (Oder), Germany

3 - Sematech, USA

- 9.40** ***CV measurements on LaLuO₃ stack MOS capacitor using a new 3-pulse technique***

N. Sedghi¹, W. Davey¹, I. Mitrovic¹, J. M. J. Lopes², J. Schubert², and S. Hall¹

1 – University of Liverpool, Liverpool, UK

2 - Institute of Bio and Nanosystems, Research Centre Juelich, Germany

10.00 - 10.30 **Break**

Wednesday, June 30

2.5 Electrical characterisation and reliability of devices with alternative dielectrics

Chair: A. Dimoulas

- 10.30** ***Deep-level transient spectroscopy on high-k dielectric stacks: Effects of the interlayer traps***
H. Castán, S. Dueñas, H. García, A. Gómez, and L. Bailón
Departamento de Electricidad y Electrónica, E.T.S.I.Telecomunicación, Universidad de Valladolid, Spain
- 10.50** ***Dielectric layers suitable for high voltage integrated trench capacitors***
J. vom Dorp¹, T. Erlbacher², A.J. Bauer², H. Ryssel^{1,2}, L. Frey^{1,2}
1 – Chair of Electron Devices, University Erlangen-Nuremberg, Erlangen, Germany
2 - Fraunhofer Institute for Integrated Systems and Device Technology, Erlangen
- 11.10** ***Non-contact metrology for inversion charge carrier mobility by corona charge and photovoltage measurements on blank wafers with a gate dielectric***
J.L. Everaert¹, E. Rosseel¹, A. Pap², A. Meszaros², J. Dekoster¹, T. Pavelka²
1 IMEC, Leuven, Belgium
2 Semilab Semiconductor Physics Laboratory, Co., Ltd., Budapest, Hungary
- 11.30** ***Current Instabilities in REO-HfO₂ gate stacks grown on Germanium based MOS devices due to Maxwell-Wagner instabilities and dielectrics relaxation***
M. S. Rahman^{1,2}, E. K. Evangelou², A. Dimoulas³, G. Mavrou³ and S. Galata³
1 - GSI - Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany
2 - Lab of Electronics-Telecoms & Applications, Dept. of Physics, University of Ioannina, Greece
3 –MBE Laboratory, Institute of Material Science, NCSR«Demokritos», Greece
- 11.50** ***Processing dependences of CHC degradation on strained-Si pMOSFETs***
E. Amat¹, J.Martin-Martinez¹, M.B.Gonzalez², R.Rodriguez¹, M.Nafria¹, E.Simoen², P.Verheyen² and X.Aymerich¹
1 – Departament d'Enginyeria Electrònica, Universitat Autònoma de Barcelona, Spain
2 – IMEC, Leuven Belgium
- 12.10** ***Gate oxide reliability at the nano-scale evaluated by combining cAFM and CVS***
T. Erlbacher¹, V. Yanev¹, M. Rommel¹, A.J. Bauer¹, L. Frey^{1,2}
1 – Fraunhofer Institute for Integrated Systems and Device Technology, Erlangen, Germany
2 – Chair of Electron Devices, University of Erlangen-Nuremberg, Erlangen, Germany

12.30 - 14.00 **Lunch**

Wednesday, June 30

3.1 High-k dielectrics for MIM (DRAM etc.)

Chair: A. Paskaleva

- 14.00** **Invited Talk: *Metal-insulator-metal capacitors – intrinsic constraints of high-k dielectrics***
Ch. Wenger, M. Lukosius, G. Lupina, T. Schroeder
IHP, Im Technologiepark 25, 15236 Frankfurt/Oder, Germany
- 14.30** ***Electrical characteristics of TiTaO based MIM capacitors***
M. Lukosius¹, Ch. Wenger¹, G. Ruhl², S. Rushworth³
1 – IHP, Im Technologiepark, Frankfurt Oder, Germany
2 – Infineon, Regensburg, Germany
3 – SAFC HiTech, Bromborough, Wirral, Merseyside, U.K
- 14.50** ***Macroscopic and microscopic electrical characterization of high-k ZrO₂, (ZrO₂)_x(Al₂O₃)_{1-x} and ZrO₂/Al₂O₃/ZrO₂ metal-insulator-metal structures***
D. Martin¹, M. Grube¹, W. Weinreich², J. Müller², L. Wilde², E. Erben¹, W.M. Weber¹, U. Schröder¹, Th. Mikolajick^{1,3}, and H. Riechert⁴
1 – Namlab gGmbH, Dresden, Germany
2 – Fraunhofer CNT, Dresden, Germany
3 – Chair of Nanoelectronic Materials, University of Technology Dresden, Germany
4 – Paul-Drude-Institut für Festkörperelektronik, Berlin, Germany
- 15.10** ***Atomic scale engineering of future high-k DRAM dielectrics: the example of partial Hf substitution by Ti in BaHfO₃***
P. Dudek¹, G. Lupina¹, P. Zaumseil¹, D. Schmeisser² and T. Schroeder¹
1 – IHP, Frankfurt (Oder), Im Technologiepark 25, Germany
2 – BTU Cottbus, Germany

15.30 - 16.00 **Break**

Wednesday, June 30

3.2 Resistive switching in dielectrics

Chair: Ch. Wenger

16.00 **Invited Talk: *Nano structured resistive memory cells based on TiO₂ thin films***

C. Kügeler^{a,b}, S. Hoffmann-Eifert^{a,b} and R. Waser^{a,b}

^a*Institut für Festkörperforschung, Forschungszentrum Jülich GmbH, Germany*

^b*JARA- Fundamentals of Future Information Technology, Jülich, Germany*

16.30 ***CMOS compatible TiN/HfO₂/Ti/TiN MIM devices for future RRAM applications***

Ch. Walczyk¹, T. Schroeder¹, M. Lukosius¹, D. Walczyk¹, M. Fraschke¹, A. Fox¹, D. Wolansky¹, B. Tillack^{1,2} and Ch. Wenger¹

¹*IHP, Frankfurt (Oder), Germany*

²*Department of Computer Engineering and Microelectronics, TU Berlin, Germany*

16.50 ***Growth behaviour and characterization of atomic layer deposited TiO_x thin films for resistive switching memory cells***

M. Reiners, S. Hoffmann-Eifert, C. Kügeler, R. Bruchhaus and R. Waser

Institute for Solid State Research, Research Center Jülich GmbH and JARA-FIT, Jülich

3.3 Dielectrics for non-volatile memories (flash, nanocrystal-based memories,...)

17.10 ***Charge retention in CT SiN: impact of technology and operating conditions***

G.Ghidini^a, N.Galbiati^a, E.Mascellino^b, C.Scozzari^a, A.Sebastiani^a, S.Amoroso^b, C.Monzio, Compagnoni^b, A.S.Spinelli^b, A.Maconi^b, R.Piagge^a, A.Del Vitto^a, M.Alessandri^a, I.Baldi^a, E.Moltrasio^a, G.Albini^a, A.Grossi^a, P.Tessariol^a, E.Camerlenghi^a and A.Mauri^a

^a*Numonyx, Central R&D, Agrate Brianza, Italy*

^b*Dipartimento di Elettronica e Informazione, Politecnico di Milano-IU.NET, Italy*

17.30 ***Study of parasitic trapping in alumina used as blocking oxide for non volatile memories***

J. P. Colonna, M. Bocquet, G. Molas, N. Rochat, P. Blaise, H. Grampeix, C. Licitra, F. Martin, D. Lafond, L. Masoero, V. Vidal, J. P. Barnes, M Veillerot and K. Yekache

¹ – *CEA-LETI, Minatec, 17, Grenoble Cedex 9, France*

17.50 ***Synthesis and characterization of DyScO_x films deposited on Si and Si-rich SiN by atomic layer deposition for blocking layer replacement in TANOS stack***

A. Lamperti¹, E. Cianci¹, U. Russo^{1,*}, G. Congedo¹, O. Salicio¹, S. Spiga¹, M. Fanciulli^{1,2}

1 – Laboratorio MDM, IMM-CNR, Agrate Brianza (MB) Italy

2 – Dipartimento di Scienza dei Materiali, Università degli Studi di Milano Bicocca, - Italy

** Now with Numonyx R & D, Technology Development, Agrate Brianza (MB) – Italy*

18.10 ***Charge emission in SiO₂ layers containing Ge nanocrystals - evidence of a two-stage relaxation process from deep level transient spectroscopy analysis***

R. Beyer¹, H. Burghardt¹ and J. von Borany²

1 – Beyer Associates, Chemnitz, 2 – Institute of Ion Beam Physics and Materials Research, Forschungszentrum Dresden-Rossendorf, Germany

18.30 **Poster session**

20.00 **Dinner**