

Schulz, S.E.; Ecke, R.: Advanced CVD Technology for Diffusion Barrier and Cu Deposition, Invited Talk 3rd International Semiconductor Technology Conference (ISTC 2004) Shanghai, China 2004, September 15-17

Schulz, S.E.; Gessner, T.: Ultra thin CVD TiN layers as diffusion barrier films on porous low-k materials. *Microelectronic Engineering*, 76 (2004), pp. 82-88

Schulze, K.; Schulz, S.E.; Frühauf, S.; Körner, H.; Seidel, U.; Schneider, D.; Gessner, T.: Improvement of mechanical integrity of ultra low k dielectric stack and CMP compatibility. *Microelectronic Engineering*, 76 (2004) pp. 38-45

Shaporin, A., Kolchuzhin, V., Mehner, J., Dötzel, W.: Parametric Variational Finite Element Method for MEMS Electrostatic Problems, Proc on 10. GMM Cottbus, Germany (2004), pp. 39-46,

Shen, Y.; Leschke, M.; Schulz, S.E.; Ecke, R.; Gessner, T.; Lang, H.: Synthese of Tri-n-butylphosphine Copper(I)- β -diketonates and their use in Chemical Vapour Deposition of Copper, *Chinese J. Inorg. Chem.* (2004) in press.

Siemieniec, R.; F.-J. Niedernostheide, H.-J. Schulze, W. Südkamp, U. Kellner-Werdehausen, Lutz, J.: „Irradiation induced deep levels in Silicon”, *Electrochemical Society Proceedings Vol. 2004-05*, S. 369-384, Honolulu Oct 2004

Wiemer, M.: Wafer bonding and MEMS packaging technologies, A*Star IZM Workshop, Singapore, November 8, 2004

Wiemer, M.; Frömel, J.; Jia, Ch.; Gessner, T.: “Bonding, contacting and sealing of MEMS structures on wafer level” written for “Sensors and Materials” an international Journal on Sensor Technology, 2004, in press

Zeun, H.; Uhle, J.; Heinz, S.; Ebest, G.: Hochohmige Polysilizium-Widerstände in integrierten Hochvolt-Schaltungen. 10. GMM-Workshop "Methoden und Werkzeuge zum Entwurf von Mikrosystemen", Cottbus, 2004 Okt 20-22 pp. 227-230

Zimmermann, S.; Ecke, R.; Rennau, M.; Schulz, S.E.; Hecker, M.; Voss, A.; Engelmann, H.-J.; Mattern, N.; Zschech, E.; Gessner, T.: Characterisation of a PECVD WN_x Barrier Layer against Copper Diffusion, AMC Conference 2003, Conf. Proc. AMC XIX MRS Warrendale PA 2004, pp 397-402

10 Guests & special international relations

Guests from:

- | | |
|------------------|--|
| January 13 | Prof. R. Bruch, University of Nevada, Reno |
| February & March | Prof. Zhuyi Wen, Chongqing University, China |
| February 19 | Dr. Koichi Ohtaka, Takahito Uga, Ikuo Katoh, Ricoh Comp. Ltd., Japan |
| March 22 | Mr. Natsuki Yokoyama, Hitachi Ltd., Tokyo, Japan |
| March 30 | Valentin Kahl, ibidi GmbH, München |
| March 31 | Mrs. Annie Roulleau, Fa. Sagem, St. Etienne, Frankreich
Mr. Philipe Pougnet, Johnson Controls, Cerey-Pontoise, Frankreich |
| May 8 | Prof. R. Bruch, University of Nevada, Reno, USA |
| May 10 | Prof. J. Morris, Portland State University, Portland, USA |

- May 28 Dr. Joost Grillaert (Technical Marketing Manager Europe), Martin Kranz (Account Manager Central Europe); Cabot Microelectronics
- June 17&18 Dr. Masao Arakawa, Mr. Tomoo Otsuka, Mr. Yutaka Kinugasa, Matsushita Electric Works, Osaka, Japan
- June 20 Prof. Zhuyi Wen, Prof. Yansun Wu, Chongqing University, China
 Doz. Dr.-Ing. Jan Mühlbacher, Dozentenaustausch, TU Pilsen, Tschechien
 Doz. Dr.-Ing. Vaclav Kus, Dozentenaustausch, TU Pilsen, Tschechien
 Doz. Dr.-Ing. Eva Kucerova, Dozentenaustausch, TU Pilsen, Tschechien
- June 30 K. Sukondhasingha (Chairman of MTEC Board), C. Thanachayanont National Science & Technology Development Agency, Pathumthani, Thailand
- July Zhou Yi, Wei Fanglin, Ji Yinhu, FACRI Xián, China
 July 9 Dr. Christof Krautschik, Intel Corp., Santa Clara, USA
 July 9 Dr. A.R. Baker (Vice President Technology), P. van der Velden, M. Hauck; Rohm and Haas Electronic Materials
- July 26 - Prof. A. Kazemzadeh, Dr. M.A. Bahrevar, Materials & Energy Research Center, Teheran, Iran
 August 2
 August 24 Dr. Curtis R. Carlson, President and CEO, SRI International
- September Chris Cooke, John Ziegler, Dr. Thomas Lechtenberg – Vice President, General Atomics, San Diego, USA
- September 10 Mrs. H. Weber, Sumitomo Deutschland, Düsseldorf und Dr. T. Yamamoto, Asahi Kasei, Kawasaki, Japan
- October 4 Mr. Min Shi, FhG Office Shanghai, China
 October 27 Mr. Hernan Valenzuela, Brazilian Ministry of Development, Industry and Foreign Trade (SUFRAMA), Coordination of Institutional Relations for Technological Affairs
 October Yang Min, Li Wenhong, Han Kejian, FACRI Xián, China
- November 3 Dr. J. Kade, Dr. A. Hürnich, DP M. Müller, FhG Photonische Mikrosysteme Dresden
 November 11 Mr. Takahito Uga, Mr. Ikuo Katoh, Mr. Daiki Ninegishi, Ricoh, Yokohama, Japan
 November Prof. Zhuyi Wen, Prof. Yansun Wu, Chongqing University, China
- December Prof. Boris M. Sinelnikov, President of North-Caucasus State Technical University, Stavropol, Russia and Prof. Nikolay I. Kargin, Vice-President and
 12-17 Dr. Alieva L. Ruslanovna, Head of Internatl. Relation Dept.

and

Dietrich Mund	Schott Glas Electronic Packaging
Kunihiko Ueki	Kyocera
Dieter Stolze	Endress und Hauser GmbH+Co. KG
Holger Reinecke	Steag microparts
Bernhard Trui	Atmel Germany GmbH
Jürgen Graf	Robert Bosch GmbH

Scientific coworkers / PhD:

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November 2002 – December 2004
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November 2002 – December 2004
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March 2003 – February 2004
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January 2003 – December 2004
Julia Yukecheva Novosibirsk Technical University, Russ. Präsidentenstipendium
August 2003 – July 2004
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Dr. Huseyn Orujov Azerbaijan Technical University, Baku, Azerbaijan
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Students:

Ebermann, Gustavo	Universidad Catolica del Peru, Lima	09/2003 – 03/2004
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Kuchar, Milan	TU Pilsen	04/2004 - 08/2004
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Hendrichova, Jarmila	TU Pilsen	04/2004 - 08/2004
Stefanski, Marek	TU Lodz	10/2003 - 02/2004
Suchodolski, Marcin	TU Lodz	10/2003 - 02/2004
Stacia, Michael	TU Lodz	10/2003 - 02/2004
Greisel, Andreas	Portland State Univ., USA	06/2004 – 08/2004
Lantz, Vanessa	Portland State Univ., USA	06/2004 – 08/2004
Lotz, Josef	Portland State Univ., USA	06/2004 – 08/2004
Sankisa, Srihari	University of Nevada, Reno	08/2004 – 12/2004
Vasudeva, Vikas	University of Nevada, Reno	08/2004 – 11/2004