

Events Workshops

Celebration of the 10th Anniversary of the Fraunhofer IGD Rostock
On June 14, 2002, the Fraunhofer Institute for Computer Graphics (IGD) Rostock celebrated its 10th anniversary.

200 guests from politics, industry and research took part in the celebration.

Welcoming speeches from the areas of business, science and politics acknowledged the 10 years of successful development of the Fraunhofer IGD Rostock. Speakers were:

- Dr. Ebnet, Minister for Economic Affairs in Mecklenburg-Vorpommern
- Prof. Encarnação, Chairman of the Fraunhofer Group for Information and Communication Technology
- Prof. Hantzschmann, Speaker for the Computer Science Department of the University of Rostock
- Dr. Seidel, Manager of the Rostock Business Association
- Dr. Kehrer, Managing Director of the Computer Graphics Center (ZGDV)

Prof. Urban, the associate director of the IGD Rostock, gave a short presentation reflecting on the development of the Fraunhofer IGD Rostock since its foundation in January 1992.

At that time, the Fraunhofer IGD Rostock had 7 staff members from the institutes of the former Academy of the GDR and from departments of the University of Rostock. The first research topics were the visualization of marine environmental data, telecommunications and imaging. Today, the Fraunhofer IGD Rostock has 35 employees, around 45 students working part-time and four departments which determine the research topics:

- Multimedia Communication
- Visualization and Interaction Techniques
- Mobile Multimedia Technologies
- Entertainment Technologies

As is traditional in the INI-GraphicsNet, Prof. Encarnação and Prof. Urban honored long-time employees for their ten years of service to the INI-GraphicsNet at this celebration.

In the afternoon, a scientific program with three invitational talks took place, followed by a demo tour presenting actual research solutions from the Fraunhofer IGD Rostock and ZGDV.

The invited speakers for the scientific program were:

- Prof. Markus Gross from the Institute of Scientific Computing of ETH Zurich, with a talk about »The Blue-C - Designing the Future of Collaborative Virtual Reality«
- Prof. James J. Thomas from Battelle Pacific Northwest Laboratory, with a talk about »What is Your Relationship with Your Information Space«
- Dr. David Zeltzer from the Fraunhofer Center for Research in Computer Graphics, with a talk about »Decision-Centered Visualization: Time-Critical Situation Awareness and Decision Making«

The scientific program was part of the 9th international workshop on »Design, Specification, and Verification of Interactive Systems - DSVIS2002«. This workshop took place from June 12-14 and was organized jointly by the Fraunhofer IGD Rostock and the Computer Science Department of the University of Rostock.

A demo tour through the labs of the Fraunhofer IGD Rostock offered all guests the opportunity to see actual research results and to talk with the scientists.

The presentation of 22 actual R&D projects from the Fraunhofer IGD Rostock, but also from other institutions in the INI-GraphicsNet,



Prof. Encarnação and Dr. Ebnet thank Prof. Wildenhain (from left to right) for his support of IGD Rostock by giving him a present



Prof. Encarnação and Dr. Ebnet thank Prof. Maeß, the former Rector of the University of Rostock for his support of IGD Rostock by giving him a present



Prof. Encarnação and Dr. Ebnet congratulate Prof. Urban on ten years of successful development of IGD Rostock



Dr. Kehrer, Managing Director of the ZGDV, during his address



Prof. Groß during his scientific talk



Prof. Thomas during his scientific talk



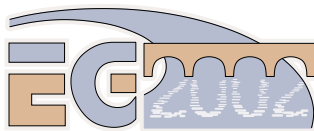
Evening Event at Lokschuppen

demonstrated innovative solutions and new trends in IT.

A gala party at night completed the celebration of the 10th anniversary. The evening event took place at »Lokschuppen« in the town harbor of Rostock. Prof. Bertram Herzog gave a dinner speech reflecting on his impressions of Rostock from 1992 until today. He accompanied the development of the Fraunhofer IGD Rostock and stayed at the institute several times for two to three month periods.

During the evening event, treats for the eye and ear were presented by the employees of the IGD Rostock. All guests enjoyed the 'Scheherazade's Daughters' belly dance group led by staff member Claudia Herzig and the 'Burning Bullfrogs' blues band of staff member Kay-Uwe Graw.

We thank all research partners and customers for their congratulatory words and look forward to ongoing cooperation.



Annual Conference of the European Association for Computer Graphics

Eurographics 2002

September 2-6, Saarbrücken, Germany

Max-Planck-Institut für Informatik and Universität des Saarlandes

This year's Eurographics conference will be held in Saarbrücken on September 2-6. Its theme, "Bridges between real and virtual worlds", aims to reflect the rapidly growing capabilities of computer graphics to assist nearly all areas of business and life.

In the first two days there will be a broad range of Tutorials, which will address special aspects of computer graphics and its applications: 3D Data Acquisition, Facial Modeling and Animation,

Cloth Animation and Rendering, Programmable Graphics Hardware for Interactive Visualization, Inhabited Virtual Heritage, Point Based Computer Graphics, Spectral Trends in Color Reproduction, Modeling and Rendering of Synthetic Plants, View-Dependent Rendering for Polygonal Datasets and Geometric Data Structures for Computer Graphics.

There are three invited talks on »Artificial Animals and Humans: From Physics to Intelligence« (D. Terzopoulos, New York), »Interactive Visualization with Programmable Graphics Hardware« (T. Ertl, Stuttgart) and »3D Scanning Technology: Capabilities and Issues« (R. Scopigno, Pisa). More than 50 papers will be presented in 13 sessions. This year the focus of these presentations is on Rendering and Illumination techniques and, of course, special aspects of Virtual and Augmented Reality, such as virtual humans.

Additionally there will be state of the art reports on »Global Illumination for Interactive Applications and High Quality Animations«, »Interactive High-Quality Volume Rendering with Flexible Consumer Graphics Hardware«, »Visual Data Mining«, »Feature Extraction and Visualisation of Flow Fields« and »Tone Reproduction and Physically Based Spectral Rendering«. Industrial seminars in the areas »Games and Entertainment Applications«, »Chemistry and Life Sciences« and »Virtual and Augmented Reality in the Automotive Industry«, an industrial panel in the OpenSG context as well as posters, and lab presentations of about 50 European computer graphics research labs will complete the program of the conference.

Please see

<http://www.eg.org/eg2002>

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Workshop BIOSIG 2002

The city administration accepts digitally-signed tax returns which citizens have sent in via the Internet; businesses sign contracts electronically at their home offices; and doctors exchange patient information over the Web. This is what the much awaited new information and communication society could look like. Many government institutes and businesses however are afraid of exchanging confidential information over an electronic network. They are doubtful whether security, data protection, and legal obligations can be guaranteed. Electronic signatures and biometric systems are considered by experts to be key technologies. They will provide technical and legal security and thereby make a great variety of services in e-government more attractive as well as tap e-business market potential. The German parliament has already placed the electronic signature on a par with the handwritten signature. But the greatest breakthrough for the digital alternative has not yet occurred, even if public administration, for example in Bremen, is willing to take on a leadership role in that regard.

The controversial biometrics debate in the public and in the media, as well as the doubt about the security of cryptographic methods for electronic signatures, show that explanations of the possibilities and limits of the system are urgently needed. The BIOSIG Workshop 2002, Biometrics and Electronic Signatures on July 19, 2002, in the Fraunhofer Institute for Computer Graphics (IGD), Darmstadt, was dedicated to this task.

Attendees of the workshop could choose between two presentation tracks after introductory speeches in the morning. They learned about the technical foundations and success criteria of biometrical systems and the electronic signature. In the afternoon, the presenters concentrated on describing system interfaces and different uses for the systems. The

event was sponsored by the Competence Center for Applied Security Technology (CAST), the Computer Graphics Center (ZGDV), and the BIOSIG group of the Society for Informatics (GI).

For the presentations and the final podium discussion, the event sponsors invited specialists from research, government institutes, and business. These specialists reported on their practical experiences with electronic signatures and biometrical systems, whether in single applications such as bank signature cards or in larger projects like the introduction of multifunctional identification cards for the U.S. Department of Defense. The presenters demonstrated the legal aspects of the security system and explained the current condition of work on the evaluation and certification of the system.

In the final podium discussion, experts discussed whether e-government will aid a breakthrough in biometrics and electronic systems and bring market success. You can find current information at the following URL:
<http://www.cast-forum.de/events/2002/biometrie>

SEMINARS ZGDV

All business is local... based services ?

Opportunities for Geo Information Systems in broadband mobile networks
September 20, 2002

Today, Geoinformation systems (GIS) play an increasingly important role in analyzing and representing location based phenomena and events. It can be assumed that around 80% of today's data volumes are georeferenced. Correspondingly, the geodata market has become a billion dollar business which will create a greater market share upon its completion through the use of mobile components. The advantage of GIS should not be overlooked: geoinformation systems can integrate all data ranging from regional planning procedures to analysis of customer relations and customer flow and the associated traffic problems as well as make available data to various analysis tools through suitable interfaces. In this way, spatial phenomena can be explained, various scenarios simulated and strategies planned.

With a mobile component, geoinformation systems can also be used on-site as an aid to decision making. For example, America's farmers can drastically reduce the amount of fertilizer and pesticides they put on their crops with the help of a satellite supported navigation system and corresponding computer supported on-site evaluations. Not only would this reduce their costs, but it would also spare environmental resources. The fact that better information leads to better decisions especially applies to mobile geoinformation systems. If one believes the analysts, then mobile network businesses will achieve 35% of their revenues from