**Visita de Pesquisadoras**

**da *Leibniz Universität Hannover –* Alemanha**

A **Dra. Ing. Kathrin Voges-Schwieger** e a Dipl.Eng. Stefanie Betancur Escobar, do *Institut für Umformtechnik und Umformmaschinen (IFUM) der Leibniz Universität Hannover – Deutschland* (*Institute of Forming Technology and Machines – IFUM-LUH - Germany*), estarão na UFRN nos próximos dias 31/10/2011 e 01/11/2011 para reuniões científicas e apresentação de palestras. Após participarem do COBEM 2011 elas gentilmente atenderam ao nosso convite e estenderam sua permanência em Natal para visitar a UFRN e discutir possibilidades de cooperação entre pesquisadores e grupos de pesquisa da UFRN e do IFUM-LUH.

Nossas convidadas proferirão suas palestras, **no dia 01/11/2011, auditório do Centro de Tecnologia**, conforme a programação apresentada abaixo.

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| 09:00 – 09:20 | *Seminar: “The Actual State of Research in Materials Science and Engineering in Germany and Europe Union”*.  (Dra.Eng. Kathrin Voges–Schwieger) |
| 09:20 – 09:40 | *Seminar: “Sustainable Bioresorbable and Permanent Implants of Metallic and Ceramic Materials* (*Presentation about the Collaborative Research Center 599*)”  (Dipl.Eng. Stefanie Betancur Escobar) |
| 09:40 - 10:00 | A short presentation about the Institute of Forming Technology and Machines  (Dra.Ing. Kathrin Voges–Schwieger and Dipl.Eng. Stefanie Betancur) |
| 10:00 – 10:20 | Coffee-Break |
| 10:20 – 10:50 | Lecture: “*Strain-induced α'-martensite formation in metaestable austenitic stainless steels - increase in strength and corrosion resistance*”.  Dra.Ing. Kathrin Voges–Schwieger |
| 10:50 – 11:20 | Lecture: “*Development, simulation based design and metal-forming manufacturing of patient individual acetabular components*”.  Dipl.Ing. Stefanie Betancur Escobar |

**Organização**

**Departamento de Engenharia de Materiais – DEMat/CT-UFRN;**

**Departamento de Engenharia Biomédica – DEB/CT-UFRN.**

**Coordenação**

**Prof. Wanderson Santana da Silva (DEMat) (**[**wsantana@ct.ufrn.br**](mailto:wsantana@ct.ufrn.br)**; Celular 8735 – 5692)**

**Prof. Danilo Alves Pinto Nagem (DEB) (**[**nagem@ufrnet.br**](mailto:nagem@ufrnet.br)**, Celular: 9451 – 5697)**

**Curriculum Vitae das Palestrantes.**

**Dr.Ing. Kathrin Voges-Schwieger** is a Research assistant at Institute of Forming Technology and Machines (IFUM), department of sheet metal forming, Leibniz Universität Hannover where she had done investigation in different fields in Mechanical and Metallurgical Engineering: bulk metal forming and sheet forming with focus on stainless steel, deep drawing, material models, forming at lower temperatures, phase transition, corrosion and material characterization (since 2006). She studied Mechanical Engineering (focus: production engineering) at Leibniz Universität Hannover (2005) and concluded recently your doctorate thesis at the Faculty of Mechanical Engineering, Leibniz University of Hannover, when she developed the theme “Increase in local strength in metaestable austenitic steels by strain-induced α’-martensite formation” (2010). Moreover she is member of the German Group of the IDDRG (International Deep Drawing Research Group) and member of the Group Ductility Testing of DIN Deutsches Institut für Normung e.V., International standardization.

**Dipl.Ing. Stefanie Betancur Escobar** studied Mechanical Engineering at the Leibniz Universität Hannover (Specialisation in Biomedical Engineering and Process Engineering) and obtained her graduate degree (Dipl.-Ing) at the Institute for Multiphase Processes, where she defended the thesis: “Investigation of the Interaction between Solid and Fluid Phases by means of a Simplified Heart Valve Model”, in 03/2010. Actually she is Research Assistant at the Institute of Forming Technology and Machines, Department of CA-Technologies, since 05/2010, where she have done investigations in the Medical Engineering, focusing the “Determination of the load collective in human and canine joints by means of multi-body simulation” and the “Design and metal-forming of patient individual implants”.