

Martín Machado

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Academic Achievements

Standard bearer, School of Engineering, National University of Mar del Plata, 2009.

Congresses and Conferences

- “New Developments on Metallurgy and Applications of High Strength Steels”. Int'l Conference. Buenos Aires, Argentina. May 2008. Assistant.
- “Tercer Encuentro de Jóvenes Investigadores en Ciencia y Tecnología de los Materiales”. Jornadas SAM. Concepción del Uruguay, Entre Ríos, Argentina. August 2010. Exhibitor.
- “Ingeniería 2010”. World Congress and Exhibition. Buenos Aires, Argentina. October 2010. Assistant.
- “III Encuentro Nacional Materia Blanda”. Mar del Plata, Argentina. November 2010. Exhibitor.

Education

Start date: March 2005

Estimated end date: June 2011

Institution: School of Engineering, National University of Mar del Plata

Qualifications: Materials Engineer

City/Country: Mar del Plata, Argentina

Computer Skills

Programation languages: Fortran, Pascal, Visual Basic, Mathcad, Matlab

Finite Element packages: Abaqus, CosmosWorks, Moldflow Plastics Insight

Graphic tools: Basic AutoCAD, Corel Draw, advanced Solid Works

Worksheets: Origin, MS Excel

General: MS Office

Work Experience

- Finite Element Analysis of a Well Service Equipment Chassis. Freelance work requested by QM equipment. September 2010.
- Advanced Student Intern. Director: Patricia M. Frontini. Polymer Division. INTEMA. School of Engineering. National University of Mar del Plata. Abril 2010 - Abril 2011.

Calibration of viscoplastic and hyperelastic constitutive equations for HDPE and PU respectively. Design of mechanical tests at constant strain rate. Implementation of constitutive equations on FEM code.

- Engineering Department. QM Equipment. Gral. Savio Industrial Park. Mar del Plata. November 2009 - August 2010.
Design of Well Service equipment. Pressure vessels calculations under ASME, ASCE and DOT codes. Design verification by FEM.
- Metallurgy Department. Aluar Aluminio Argentino SAIC. Puerto Madryn, Chubut. January 2009 – March 2009.
Characterization of redraw rod manufacturing process. Mechanical and electrical tests. Metallurgical characterization by optic microscopy.

Teaching Experience

- Undergraduate Teaching Assistant. Structural Properties II (Polymers, Composites and Ceramics). School of Engineering. National University of Mar del Plata. 2nd Semester 2010.
- Undergraduate Teaching Assistant. Laboratory I (Determination of advanced mechanical properties). School of Engineering. National University of Mar del Plata. 1st Semester 2010.
- Undergraduate Teaching Assistant. Thermodynamics of materials (Physical Chemistry). School of Engineering. National University of Mar del Plata. 2nd Semester 2008.
- Undergraduate Teaching Assistant. General Chemistry I. School of Engineering. National University of Mar del Plata. 1st Semester 2008.
- Undergraduate Teaching Assistant. Thermodynamics of materials (Physical Chemistry). School of Engineering. National University of Mar del Plata. 2nd Semester 2007.

References

- Ing. Lorenzo Crivellari. Senior Assesor. QM Equipment. Parque Industrial Gral. Savio. Mar del Plata, Argentina. Tel: +54-0223-155600310.
- Ing. Pablo Fiscaletti. Head of Development. QM Equipment. Parque Industrial Gral. Savio. Mar del Plata, Argentina. Tel: +54-0223-155600315.
- Dra. Patricia Ma. Frontini. INTEMA. Polymer Division. Avda. Juan B. Justo 4302. Mar del Plata, Argentina. Tel: +54-223-4816600 Int. 204.
- Dra. Ma. Victoria Canullo. Head of Metallurgy Department. Aluar Aluminio Argentino SAIC. Puerto Madryn, Chubut. Tel: +54-02965 459-000 Int. 3370
- Ing. Alejandro Preckel. Process Engineer. Aluar Aluminio Argentino SAIC. Puerto Madryn, Chubut. Tel: +54-02965 459-000 Int. 6975
- Dr. Juan Pablo Tomba. INTEMA. Polymer Division. Avda. Juan B. Justo 4302. Mar del Plata, Argentina. Tel: +54-223-4816600 Int. 249.