

J. FRANCISCO HERNANDEZ-VALLE

University of Warwick, Department of Physics
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EDUCATION

- 2nd year PhD student, Physics, full time.
University of Warwick. Coventry, United Kingdom.
Research project: “High temperature ultrasonic transduction”.
- Master in Electric Engineering, Electronic Systems, graduated with honours in October 2006.
Universidad Nacional Autónoma de México (UNAM). México, D.F.
Thesis: “Design and implementation of a trigger circuit for a low-power solid state laser”
- Engineer in Electronics.
Universidad Nacional Autónoma de México (UNAM). México, D.F. May 2003.
Thesis: “Design and construction of an instrument for velocity measurements in fluids based on laser diodes”

PUBLICATIONS

- F. Hernandez-Valle, S. Dixon. Initial tests for designing a high temperature EMAT with pulsed electromagnet. *NDT&E Int* (2009), doi:10.1016/j.ndteint.2009.10.009.
- F. Hernandez-Valle, S. Dixon. “Preliminary tests to design an EMAT with pulsed electromagnet for high temperature”, *AIP Conference proceedings* 1096, pp. 936-941. March 2009.
- F. Hernández, M. Navarrete, E. V. Mejía, M. Villagrán-Muniz, "Trace analysis of pesticides in water using pulsed photoacoustic technique". *European Physical Journal-Special Topics*, Vol. 153, No. 1, p.p. 507-510, January 2008.
- F. Hernández, J. Morales, M. Navarrete, M. Villagrán-Muniz, "Determination of velocity profiles in pipes by photoacoustic method". *Journal de Physique IV*, Vol. 125, p.p. 339-41, 2005.
- M. Navarrete, F. Hernández, J. Morales, M. Villagrán-Muniz, “Laser ultrasonic for measurements of velocity distribution in pipes”, *Journal of Applied Research and Technology*, Vol. 2, No. 3, December 2004.
- F. Hernández, J. Morales, M. Navarrete, M. Villagrán-Muniz, "Determination of velocity profiles in pipes by photoacoustic method". *13th ICPPP Conference proceedings, Laser ultrasonics*, p. 04P-02.

CONFERENCES

- 47th British Conference on Non-destructive testing (NDT). Cheshire, UK, 2008.
Talk: “Initial tests for designing a high temperature EMAT with pulsed electromagnet”.

- 35th Annual Review of Progress in Quantitative Nondestructive Evaluation (QNDE). Chicago, USA, 2008. Exhibitor on posters session.
- 14th International Conference on Photoacoustic and Photothermal Phenomena. Cairo, Egypt, 2007. Exhibitor on posters session.
- SOMI XX (Mexican Society of Instrumentation), Guanajuato, México, 2005.
- 13th International Conference on Photoacoustic and Photothermal Phenomena. Río de Janeiro, Brasil, 2004. Exhibitor on posters session.
- SOMI XVI (Mexican Society of Instrumentation), Querétaro, México, 2001. Exhibitor on posters session, honorary mention.

SCHOLARSHIPS

- Research Student Development Fellowship, the Royal Academy of Engineering and Elster Group. (2008-2009).
- CONACYT scholarship for studying the PhD in Physics (2007-2010).
- CONACYT scholarship for studying the Master in Electrical Engineering (2004-2005).
- UNAM-DGAPA scholarship for participating in projects from the Engineering Institute, UNAM (2001-2002).

LANGUAGES

- English: Fluent.
- Spanish: Native speaker.
- French: Intermediate.

ADDITIONAL INFORMATION

2007-2009 Member of Latin American Society at University of Warwick.

- Organised Mexican film screenings for society's members.
- Participated twice in America's Day at the One World Week, sharing with people a taste of Mexican culture.
- Collaborated for set up the first discussion forum for the society.

2003-2004 Member of the EXEC in the Aeronautic and Aerospace Engineering Society at UNAM.

- Organised and chaired committee meetings.
- Liaised with invited speakers from science and industry to create an informative and interesting programme of lectures.
- Worked with the committee members to arrange a series of social events within the school of engineering.
- Set up the first annual society week within School of Engineering.