

Electromagnetic Compatibility (EMC)

List of Publications:

1. A Rowell, **D Bozec**, L McCormack *et al*, Improved measurement of radiated emissions from moving rail vehicles in the frequency range of 9kHz to 1GHz, IEEE Symposium on Electromagnetic Compatibility, Santa Clara - California, 9-13 August 2004
2. J F Dawson, **D Bozec**, D. Cullen *et al*, Simulation of harmonic and conducted interference levels from switched mode power supplies and phase controllers, IEEE Symposium on Electromagnetic Compatibility, Santa Clara - California, 9-13 August 2004
3. **D Bozec**, D Cullen, L McCormack *et al*, An Investigation into the radio frequency emissions from switched mode power supplies and similar switched electronic load controllers operating at various load conditions, IEEE Symposium on Electromagnetic Compatibility, Santa Clara - California, 9-13 August 2004
4. **D Bozec**, A Nothofer, L McCormack *et al*, A good practice guide for the use of GTEM cells in EMC measurements according to IEC61000-4-20, IEEE Symposium on Electromagnetic Compatibility, Santa Clara - California, 9-13 August 2004
5. M Tyndall, **D Bozec**, D Welsh *et al*, Reduction in test effort for emission above 1GHz using statistical analysis, EMC YORK 2004, July 2004
6. **D Bozec**, Can electromagnetic interference make your healthcare facilities unsafe?, Health Estate magazine, June 2004
7. **D Bozec**, MP Robinson, D Pearce and C Marshman, Electromagnetic Compatibility and spectrum management issues of the ISM band for wireless communication in healthcare facilities, ESDA2004-58158, accepted for publication at the 7th Biennial Conference on Engineering Systems Design and Analysis, Manchester, July 2004
8. MP Robinson, **D Bozec** and C Marshman, Healthcare Engineering and Electromagnetic Compatibility (EMC) - Proceedings of Healthcare Engineering conference – London – November 2003
9. A Rowell, **D Bozec**, L McCormack *et al*, Rolling Stock Emission Measurements, Proceedings of the IEE symposium on EMC Assurance in a Railway Environment – London – September 2003
10. A Rowell, **D Bozec**, L McCormack *et al*, Innovative Railway EMC Emission Measurement Techniques, Proceedings of the World Congress of Railway Research – Edinburgh – September 2003.
11. **D Bozec**, D Cullen, L McCormack *et al*, An Investigation into the EMC Emissions from Switched Mode Power Supplies and Similar Switched Electronic Load Controllers operating at various load conditions, EMC YORK 2003, July 2003
12. A Nothofer, MJ Alexander, **D Bozec**, *et al*, A GTEM Good Practice Guide – The Use of GTEM cells for EMC measurements applying IEC 61000-4-20, EMC YORK 2003, July 2003
13. A Nothofer, MJ Alexander, **D Bozec**, L McCormack and A Marvin, Measurement Good Practice Guide – The Use of GTEM Cells for EMC Measurements – National Physical Laboratory and York EMC Services Ltd - 2003
14. A Nothofer, MJ Alexander, **D Bozec**, *et al*, A GTEM best practice Guide – Applying IEC 61000-4-20 to the use of GTEM cells, 15th International Zurich Symposium on Electromagnetic Compatibility, Zurich, Switzerland, February. 2003

List of Awards:

1. Best Conference Paper, “Improved measurement of radiated emissions from moving rail vehicles in the frequency range of 9kHz to 1GHz”, IEEE Symposium on Electromagnetic Compatibility, Santa Clara - California, 9-13 August 2004
2. Honourable Mention at the National Measurement Awards 2003 under the category “Innovative measurement” for the development of Novel system for the measurement of radiated emissions from moving trains - Teddington

Physics

List of Publications:

1. RJ Baxter, DG Pettifor, EY Tsymbal, **D Bozec** *et al*, Importance of the interband contribution to the magneto-refractive effect in Co/Cu multilayers, *Journal of Physics-Condensed Matter*, 15 (45): L695-L702 Nov. 2003.
2. **Bozec D**, Kravets VG, Matthew JAD, *et al*, Infrared reflectance and magnetorefractive effects in metal-insulator CoFe-Al₂O₃ granular films, *J APPL PHYS* 91 (10): 8795-8797 Part 3 May 15 2002.
3. **D. Bozec**, F. Canet, V.G. Kravets, S.M. Thompson and J.A.D. Matthew, Comparison of the Magnetorefractive Effect in Transmission and Reflection for Giant Magnetoresistive Co-Ag Thin films, *Proceedings of Intermag Europe 2002*.
4. Kravets VG, **Bozec D**, Matthew JAD, *et al*, Calculation of the magnetorefractive effect in giant magnetoresistive granular films, *J APPL PHYS* 91 (10): 8587-8589 Part 3 May 15 2002.
5. Kravets VG, **Bozec D**, Matthew JAD, *et al.*, Correlation between the magnetorefractive effect, giant magneto resistance, and optical properties of Co-Ag granular magnetic films, *PHYS REV B* 65 (5), February. 1 2002.
6. **Bozec D**, Howson MA, Hickey BJ, *et al*, Mean free path effects on the current perpendicular to the plane magnetoresistance of magnetic multilayers, *PHYS REV LETT* 85 (6): 1314-1317 August. 7 2000.
7. Vila L, Park W, Caballero JA, *et al.*, Current perpendicular magnetoresistances of NiFeCo and NiFe "Permalloys", *J APPL PHYS* 87 (12): 8610-8614 June. 15 2000.
8. **Bozec D**, Walker MJ, Howson MA, *et al*, The effect of non-local electron scattering on the current-perpendicular-to-plane-mode magnetoresistance of magnetic multilayers, *J PHYS-CONDENS MAT* 12 (18): 4263-4276 May 8 2000.
9. **Bozec D**, Howson MA, Hickey BJ, *et al*, Magnetoresistance of interleaved and separated Co/Cu multilayers in the CPP mode, *J APPL PHYS* 87 (9): 4834-4836 Part 2 May 1 2000.
10. **Bozec D**, Walker MJ, Hickey BJ, *et al*, Comparative study of the magnetoresistance of MBE-grown multilayers: [Fe/Cu/Co/Cu](N) and [Fe/Cu](N)[Co/Cu](N), *PHYS REV B* 60 (5): 3037-3039 August 1999.