

Curriculum Vitae



Doug Marriott

B.Sc., C.Eng., C.Sci., FIEE., FIET., FlntR., MinstPet., MEI. FIFST., FRSA.

CHARTERED ENGINEER & CHARTERED SCIENTIST

MANAGING DIRECTOR – DOUG MARRIOTT ASSOCIATES LTD

PROFESSIONAL MEMBERSHIPS

Fellow of the Institution of Electrical Engineers (Institution of Engineering Technology)

Member of the Energy Institute (Member of the Institute of Petroleum)

Fellow of the Institute of Refrigeration

Member of the Institution of Mechanical Engineers Food Engineering Committee

Fellow of Institute of Food Science and Technology

Fellow of the Royal Society of Arts

Freeman of the City of London and Liveryman of the Worshipful Company of Engineers

SUMMARY R&D FOOD, ENERGY, AND SUSTAINABLE TECHNOLOGIES

Doug is an energetic multi disciplined qualified technical and commercial director with senior executive experience in Blue Chip PLC Organisations. A Chartered Engineer & Chartered Scientist with extensive experience gained over 25 years executive accountability in a diverse range of engineering process and energy sector applied to the Agritech Built Environment Food Industry, Chemical, Petrochemical Manufacturing and Process Industries. Doug has been responsible for multi discipline engineering, plant design, the research & development, project management, commercial contracting, manufacturing, delivery and contracts, infrastructure, including aftercare, and plant maintenance. Those roles also embraced health and safety, legislative, and environmental aspects as well as other strategic engineering and construction areas with PLC Board accountability.

Doug has some 14 years experience as Engineering Director with a Plc Blue Chip Company Safeway PLC and lead the Engineering Directorate for the Group and covering the innovation sector. His budget in 2004 was £250 Million p.a. All these areas have their own specific standards and environmental infrastructure. His expertise covers mechanical, electrical, process, construction, petrochemical, building services, energy production, and energy management, energy security & procurement, logistics engineering and R&D in the preceding areas. He was accountable for the health and safety and directed the food regulatory safety strategy, and wider research and development and implementation throughout the technical aspects of the business at a time of dynamic change in new European and uk legislation.

An acknowledged expert in his field of engineering, Doug Established a Chartered Engineering Consultancy with a focus on R&D. He has published or co-authored some 30 refereed papers in areas of applied energy and refrigeration engineering and food processing covering innovative research and development where he participated and managed some £2 million investment for defra and the private sector (Agri-Tech) and has been a contract R&D partner in various numerous contracts including plant growth % genetic stait development.. He has successfully been an industrial supervisor for two Ph.D. researchers who were awarded higher degrees and delivered successful project in the application of . CFD & Neutal Networks applies to food systems.

He was registered with the Carbon Trust (tCT) as a Consultant at Grade 4 (the highest grade) until tCT decommissioned the activity in April 2012. Doug Marriott Associates Ltd is a proactive R&D contractor and holds the prestigious Energy Institutes Innovation Award for innovative Trigeneration (heat electrical power and refrigeration applied to food process and retail applications). He has experience of applications of Trigeneration to a Large dairt plant in Maharastra. He has worked on various smart metering projects and has recently developed a smart proactice electronic system logging management and adaptive control systems which have applications in Agri-tech,

During his period as an Independent Company Doug Marriott Associates Ltd (DMAL) he has established a consultancy business in India with 4 Associates in locations throughout India. The extent of the R&D investment in the business has been to develop a microprocessor as a joint activity with an Indian Associate to produce a Smart Energy Management System (SEMS) designed completely in house on budget and to time. The skills necessary to undertake that are to a very large extent due to the learning of being a MO with DTI TSB and Innovate UK over the 10 years Doug has been and is working as an MO and assessor.

His duties as a Monitoring Officer in Agritec have interesting applications in plant breeding and nutrition for milk meat and aquatic protein conversion.

EMPLOYMENT HISTORY

Doug Marriott Associates Limited

2004 - Current - Managing Director & Senior Partner

Following the takeover of Safeway plc by Morrison plc, in June 2004 Doug established an energy & environmental chartered engineering management consultancy. Specialising in the food, and allied industries offering consultancy and R&D contracting. Since establishing the practice with 16 Associates the practice has worked for Defra, DTI, TSB, Brunel University, and the Carbon Trust and as an accredited consultant for, BAA, Tesco, Compass, The Corporation of London as well as numerous other notable blue chip Organisations all in applied engineering with high safety & risk environments. All the clients have enquired or placed repeat orders for work. In 2011 an Indian office was opened with a resident engineering manager which is now 4 strong.

Safeway Stores plc

1990-2004 - Director of Engineering Responsible for a £400 M pa budget (at today's values) Responsible for the Company engineering investment in new build, refurbishment, maintenance and repair, asset value protection, utility purchase and energy management (1.7 TWh pa electricity and gas) and an applied R&D section he set up. In addition Logistics site refrigeration strategic management including application safety as well as change management and a general consultancy role and strategic engineering development were delivered.

Food Engineering Developments

1987-1990 Commercial Director. A Company specialising in automated mechanical handling and process engineering applications to the food and explosives industry.

APV Parafreeze Ltd

1974 - 1987 - Director of Sales, Marketing, Product Development, & After Sales. A company specialising in food preservation by low and high temperature process treatment and for a range of refinery petrochemical process plant. Extensive experience in India

Prestcold Refrigeration Limited

1974 -1974 - Commercial Manager Responsible for managing design procurement and commissioning of various contracts

Ross Foods - Imperial Tobacco Ltd

1971 -1974 - Project

Manager Responsible for the company's electrical engineering and control engineering throughout the 6 manufacturing sites and for process reliability safety and process improvement in designing food process plant.

Lyons Maid Ltd - Subsidiary of J Lyons Ltd

1968 -1971 - Control Engineering Project Manager responsible for managing the company's control engineering functionality.

Ministry of Defence 1962- 1965 Student Apprenticeship.

SOME RELEVANT PUBLICATIONS

- Stribling D., Tassou S.A., Marriott D. The use of computational fluid dynamics in the minimisation of air spill from refrigerated display cases. Proceedings of the CIBSE National Conference October 1995
- Stribling D., Tassou S.A., Marriott D. Optimisation of the design of refrigerated heat exchangers using computational fluid dynamics. Proceedings of the Institute of Refrigeration Session 1995-6
- Stribling D., Tassou S.A., Marriott D. An Experimental investigation of refrigerated display case performance. Proceedings of the International Refrigeration Conference Purdue University Indiana 1996
- Stribling D., Tassou S.A., Marriott D. A two-dimensional CFD model of a refrigerant / air heat exchanger Demand Defrost of multi evaporator Refrigeration Systems. CIBSE National Conference 1995 Eastbourne, UK Vol 2 pp 231-235
- Stribling D., Tassou S.A., Marriott D. A two-dimensional CFD model of a refrigerated display case ASHRAE Transaction Research Vol 103 (1997) 88-95 Part 1
- Datta, D., Tassou, S.A., Marriott, D. Frost Prediction on Evaporator Coils of Supermarket Display Cases using artificial neural networks. Proceedings CLIMA 2000 Int'l Congress Brussels Aug-Sept 1997 paper No 99
- Datta, D., Tassou, S.A., Marriott, D. Experimental Investigation into Frost Formation on air / refrigerant heat exchangers in Order to Implement Defrost on Demand. Proceedings of 1998 Int'l Refrigeration Conference at Prod July 1998 pp.254-259
- Datta, D., Tassou, S.A., Marriott, D. Frost formation and Demand Defrost of Display Cases Cabinet Evaporators. 19th Int'l Congress of Refrigeration IIF-IIR Commission B2 and C2 with D1 and D2/3 Sofia Bulgaria 1998
- Datta, D Marriott D The use of artificial neural networks for predicting energy demand in food retail outlets. Brunel University 1999
- Tassou, S.A., Datta, D. Marriott, D. Frost formation and defrost control parameters for open multideck refrigerated display cabinets, Proceedings of the Institution of Mechanical Engineers, Professional Engineering Publishing Vol 215(No 2)(2001) 213 -222
- Marriott D Some Aspects of Energy Management Energy Conference IMechE March 2002 London
- Marriott D, Issa Chaer Prof. Savvas Tassou Cutting the Cost of Chilling using Combined Heat Refrigeration and Power A Paper Submitted to the Food Engineering Committee of the IMechE for the 2003 session.
- Marriott D Engineering the Outcome of the World Summit on Sustainable Development. Journal of Engineering Management IEE 2003 (Representing the IEE (IET) at The World Summit on Sustainable Development)
- Marriott ,D. New Energy Efficient Refrigeration Initiatives The World wide CIBSE / ASHRAE Gathering of the Building Services Industry Edinburgh Sept 2003
- Marriott, D. Innovations in Food Refrigeration: Impacts on Quality and Energy Use Defra Conference ~ July 2004
- Marriott, D. Chaer, I. Tri-Generation CHRP applications for Supermarkets Energy Efficient Cooling Sept 2005 London
- Tassou SA, Chaer, I, Sugiarta N Marriott ,D. Feasibility of the Application of Tri-generation Systems to Food retail systems Proceedings of ECOS Crete Greece 2006
- Chilled and Frozen Foods – New Manufacturing Initiatives, in the Food Industry Nov 2007 IMechE
- Tassou, S.A., Chaer, I., Sugiarta, N., Marriott, D., Suamir, IN., 2008, "Trigeneration – a solution to efficient use of energy in the food industry", Proceeding of Inst. R. 2007-08 7/1-16.
- Tassou, S.A. Chaer, I. Sugiarta, N. Marriott, D. Application of Trigeneration system to the food retail industry. Energy Conservation & Management , 48: 2988 -2995 (2007)
- Tassou SA, Marriott D, Chaer, I, Sugiarta N Sumir N Trigeneration- A Solution to Efficient use of Energy in the Food industry Inst of Refrigeration London April 2008
- Tassou SA, Marriott D et al Trigeneration I A solution to Efficient Use of Energy in the Food industry . Winner of the Lightfoot Medal Inst. of Refrig 3 April 2008
- Sugiarta, N. Tassou, S.A. Chaer, I. Marriott, D. Trigeneration in food retail an energetic, economic and environmental evaluation for a supermarket application, in print Applied Thermal Engineering Vol 29 (Issue13) (2009) 2624 - 2632
- Sugiarta, N. Tassou, S.A. Haddaway, A. Chaer, I. Marriott, D. Investigation of the performance characteristics of an ammonia-water absorption chiller in a Trigeneration system arrangement. Proceedings heat power Cycles Conference Berlin Germany (2009)
- Marriott D Sorption Refrigeration Systems & their Application to the Food Industry Defra dissemination Conference Brunel University 11 Nov 2010
- Suamir, IN. Tassou, S.A. Haddaway, A. Marriott, D. Integration of CO₂ Refrigeration & Trigeneration Systems for Supermarket Applications 1st IIR International Cold Chain Conference Cambridge 2010
- Tassou, S.A. Ge, Y, Haddaway, A. Marriott, D. Energy Consumption & Conservation in Food Retailing Applied Thermal Engineering 31 (2011) 147-156

Research: Research Contractor on Defra AFM 96, AFM 144, AFM 196, AFM 251 AFM 280