

# CV - Peter Cracknell

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## **PERSONAL INFORMATION**

### **Current position:**

1. Since March 2008 I have set up and run my own company, PSC Associates Ltd, serving the polymer / industry within the UK and overseas. My work includes teaching plastics materials, plastic processing techniques, plastic product and mould tool design. Work undertaken includes plastic material searching, design concept analysis and troubleshooting of polymer project work. Prior to March 2008 I held the post of Academic Leader in Polymer Technology at the London Metropolitan Polymer Centre. My responsibilities included lecturing to HNC, B. Eng and M Sc. students on polymer engineering based technology including material properties, processing methods and specification and evaluation of final product. I also delivered lectures on the subjects of polymer product design, mould and die design and I taught workshop theory and practice at all levels.

2. In addition to my teaching work I provide a consulting service in the field of polymer technology to industrial concerns which cover consultation on specific products and processes as well as the undertaking of assessments of company training requirements and the provision of tailored industrial short courses for clients. I have undertaken expert witness work in the areas of plastic materials, mould and tool design and plastic product design over the past 25 years. I have given evidence in court on a number of occasions and have experience of single joint instruction.

### **Previous employment experience:**

3. From June 1978 to May 1982 I was employed by Metal Box PLC at Portslade, Brighton as an indentured apprentice toolmaker. In May 1982 I was appointed as shift technician and subsequently Superintendent in the injection moulding and extrusion department. My duties included optimising the efficiency of new moulds and components

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which often involved proposing and providing specifications for tool and component design modifications. I was also responsible for specification of polymer materials and additives and conduct of processing trials on various new materials. This work required a close liaison with various material suppliers. I was responsible for the implementation of an statistical process control system based upon individual machine/mould capabilities and I was involved in the production of the company's manufacturing Quality Assurance manual.

4. In May 1984 I was promoted to the post of Manufacturing Superintendent with responsibility for 30 personnel including toolmakers, setters, inspectors and stock controllers. In this capacity I was directly responsible for achievement of the production plan which required production of approx. 10 million components per shift. I also made QA decisions and implemented QA procedures in accordance with BS requirements.

5. From December 1988 to September 1990 I was employed by Edwards High Vacuum a division of British Oxygen Company in the post of Senior Production Engineer. In this capacity I held overall responsibility for management of the mould shop and personnel. I was also engaged in component design and costing and the general organisation of production activities. I was involved in the design of moulds and allocation of work to the toolroom in general and to specific mould toolmakers. Further responsibilities were QA approval of contract suppliers and writing of QA specifications and procedures. I was also required to provide technical input for QA, R&D and project meetings. During the course of this employment I was engaged in the setting up of a new mould shop which included specification and acquisition of presses (moulding machines), mould tools and ancillary equipment.

6. In my capacity as an Industrial Consultant I have been engaged on various projects which include the production of volume PPE products, medical packaging, medical delivery devices, automotive components, blown film production, PET recycling, conductive polymer airframe components, general packaging and instrumentation. In most cases mould tool and product design performance evaluations were undertaken. I have also undertaken general analysis of production processes and output, QA analysis and manufacturing performance appraisals. Companies for which I have provided consulting services include Glaxo Smith Kline, Scherer, Hasbro, Bepak Medical, Linpac, BlocBlinds, Calsonic, DuBois, MK Electric, Polybags Ltd, Carlton, Edwards High Vacuum, Servomex, Denroy Aerospace, etc.

Current consultancies include: FEKA Automotive (Turkey), Tofas Automotive (Turkey), Hidden Art London, SMR (UK), BlocBlinds (UK), Molex (Ireland), Queens University (Belfast), PakFlatt (Derry), Denroy (Belfast), D30 Group (UK), Whale Pumps (Belfast), Permasense (UK), Formech (UK) BigSmall Design (Belfast), Bard Group (Ireland), etc.

Historical & Current Training Short Courses I present Include:

First Polymer Training Skillnet (Athlone, Ireland),

- Plastic Part Design – FETAC NVQ level 5
- Injection Mould /Tool Design – FETAC NVQ level 5

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- Polymer Materials Selection – FETAC NVQ level 6
- Vacuum Forming Technology
- Polymer Processing Workshop Risk Assessment – FETAC NVQ level 3
- Plastic Recycling
- Medical polymers & manufacturing Technology

Brighton University,

- Designing with Plastics – Accredited for CPD with IOM
- Thermoplastic Materials – Accredited for CPD with IOM

Sabic Group, KSA & UAE

- Compounding & Extrusion Technology
- Plastic Materials (olefins)

Queens University Belfast,

- Injection Mould tool design
- Engineering & High Performance Polymers
- Plastic Product Design
- Vacuum Forming Technology
- Blow Moulding Technology
- Polymer Processing Workshop Risk Assessment

Plastics South Africa, Johannesburg,

- Injection Mould Tool Design
- Plastic Part Design
- Blow Moulding & PET processing technology
- Plastics Materials Selection – NVQ Level 3

Sligo Institute of Technology (Ireland)

- Online Degree Unit in Plastic Materials Selection (Fetac - NVQ level 6)
- Online Degree Unit in Plastic Part Design (Fetac – NVQ level 7)
- Online Degree Unit in Polymer Recycling (Fetac – NVQ Level 8)
- Online Degree Unit in Materials for the Plastics Industry (Fetac – NVQ Level 6)

## **Academic Qualifications:**

7. July 1982 Technician Engineering Certificate in Mechanical and Production Engineering at Worthing Technical College awarded by BTEC.  
  
July 1984 Higher National Certificate, in Mechanical and Production Engineering at Worthing Technical College awarded by BTEC.  
  
June 1988 Graduateship of the Plastics and Rubber Institute and Associateship of The London School of Polymer Technology with honours (first class) awarded by the Polytechnic of North London and the Plastics &

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Rubber Institute (equivalent to Bachelor of Engineering).

## **Publications:**

8. I am co-author of the “Handbook of Thermoplastic Injection Mould Design”  
(1993 - Blackie Academic and Professional)
  
9. Contact details for referees can be supplied upon request.

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