



A Career in Knowledge Transfer & Project Management

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Outline of this presentation:

1995 – 2001: The undergraduate years!

2001 – 2005: The postgraduate years!

2005 – Present Day: The real world!



Support the Fibre-Reinforced Faces Team

@ <http://moteam.co/fibre-reinforced-faces>

1995 – 2001: The undergraduate years!



BSc (Hons) Chemistry with Chemical Engineering

4 year Sandwich Course with 1 year industrial placement

Final year project funded by the Ministry of Defence looking at hydrogen cyanide and cyanogen chloride removal in gas mask respirators



DECHEMA

Gesellschaft für Chemische Technik
und Biotechnologie e.V.

Sandwich placement in Frankfurt, Germany

6 months working in electrochemistry department and
6 months working in the chemical engineering
department



1995 – 2001: The undergraduate years!

Summer Placements - Work Experience



Two summer placements:

- Installing and commissioning a new £5M tablets packaging line
- Helping with the internal launch of a new drug



One summer placement:

- Carried out a time and motion study



2001 – 2005: The postgraduate years!



Meggitt Aircraft
Braking Systems

PhD in Materials Science and
Engineering

EPSRC CASE Award sponsored by
Dunlop Aircraft Braking Systems

Thesis Title:

**Catalytic Carbon Deposition on 3
Dimensional Carbon Fibre Supports**





2005 – Present Day: The real world!



The University of Reading



2005 – 2006: Knowledge Transfer Partnership Associate at The University of Reading and J G Shelton and Company Ltd



Worked for 18 months on a project looking at materials for the removal of mercury from crematoria flue gases



The Institute of Materials,
Minerals and Mining



2006 – 2013: Materials Advisor at The Institute of Materials, Minerals and Mining and Polymer Sector Leader at the Materials Knowledge Transfer Network





2005 – Present Day: The real world!



Knowledge Transfer Professional - Good Points:

- Travel
- No two days are the same
- Very diverse range of topics, applications, problems etc...
- Working at the interface between industry, academia and government
- Meeting a lot of different people from different backgrounds



2005 – Present Day: The real world!



1 August 2013 – Present Day: Project Manager at NetComposites Ltd



NanoSynth: Graphene-Reinforced Epoxies for High Performance Applications



Up-Scaled Production of Graphene Reinforced Thermosetting Polymers for Composite, Coating and Adhesive Applications



Composites Innovation Cluster – Process Theme

UK-BIOCOMP: Stimulating the UK supply chain for BioComposites

UK-THERMOCOMP: Stimulating the UK supply chain for high performance thermoplastic composites



2005 – Present Day: The real world!

Top 5 Skills Required for a Career in Knowledge Transfer / Project Management:

1. Inquisitiveness
2. Open Mindedness
3. Communication
4. Influencing
5. Experience

A degree in chemistry (or science in general) is a strong foundation for all of these...



One Key Piece of Advice:

If you want to work in industry, academia or even the third sector it is important to gain (industrial) experience whenever you can.

No one is going to come knocking on your door!



technology

Research • Consultancy • Innovation • Prototyping

- Composites research and innovation
 - Bio-derived resins and fibres
 - Self-reinforced plastics
 - Nanocomposites
 - Recycled composites
- Process development
- Prototyping
- In-house development centre
- Proposal preparation
- Project management
- Consultancy





insight

Networks • Trends • Training • Events

- Advise on future industry trends
 - Market intelligence and foresighting
- Events
 - Conferences and workshops
 - Training courses
- Networks and knowledge transfer
 - Network Group for Composites in Construction (NGCC)



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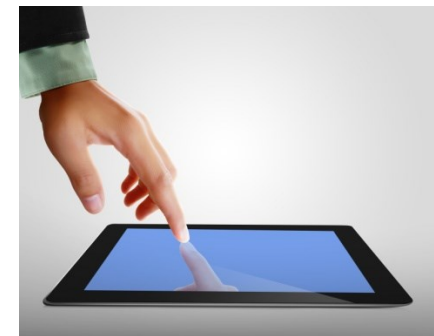
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Thank you for listening. Questions?

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