Chemistry Innovation

Driving Innovation and Value for the UK chemistry-using industries

Knowledge Transfer Network

Chemistry Innovation







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Contents

- My inspiration and motivation
 - Why I chose Chemistry
- My career to date
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Inspiration and Motivation!

Work Experience





Didn't want an office job
Wanted to work in manufacturing



How come Chemistry.....

- Apprentice Engineer
- Standard education route
- Chemistry Laboratory Assistant
- Gathered as much information as possible





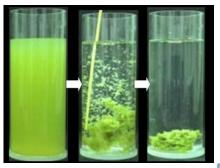
Laboratory Assistant allowed me to work and still obtain degree



Ciba - The early years (1998 – 2005)



Laboratory Assistant / Junior Chemist











Project Management, Supervisory Experience



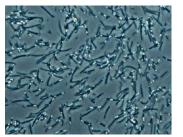
Bio-Chemistry (2005-2008)



- Replacing petrochemical feedstock's
- Utilising safer / less energy intensive biocatalysts











Process Development (2008-2009)



- Opportunity to progress successful project
- International commissioning experience







In the meantime.....

- BSc (Hons) Chemistry with Chemical Engineering
 - Won various awards from University and Ciba
- Where next
 - PhD?
 - Sponsored by Ciba?



Young Ambassador 2006/7

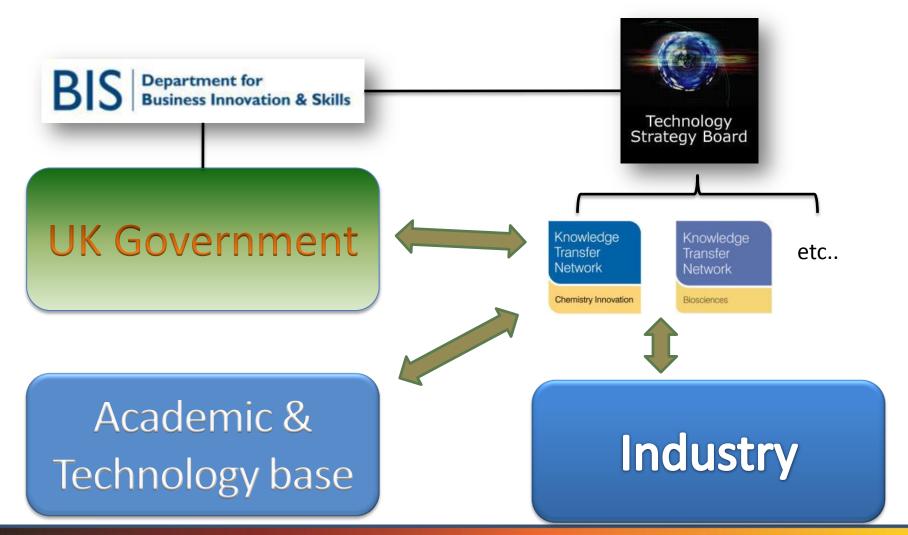




Seeing the bigger picture, develop profile in industry and soft skills Don't need a PhD to progress......



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A Strategy for Innovation in the UK Chemistry-using Industries,
June 2013





Focus areas for innovation

Raw materials for the 21st century **Smart manufacturing processes Design for functionality** Renewable feedstocks Novel materials and Chemical processes their creation Unconventional **Biological** oil and gas Formulated products transformations Design for a circular Scarce metals and Resource efficiency minerals economy

Prerequisite: Sustainable and with compelling UK advantage



Renewable Feedstocks & Biological Transformations











Why I enjoy it....and what are the challenges

- Variety of the role and 'freedom' to try new ways of working
- Learning about new technologies
- Development opportunities
 - High profile role, senior individuals
 - Managing a team
- Paid to talk to people

However....

- Impact of what you do not always known or obvious
- Miss the urgency of manufacturing environment



Suggestions.....

- Don't just follow the norm or expected
 - Find what you want to do and then identify the how
- Always have a personal development plan
 - Article success factors
 - Process to identify what you enjoy and need to work on
 - Transferable skills
- Find a mentor
 - Successful, offer advice, help think about your career 2 or 3 steps ahead