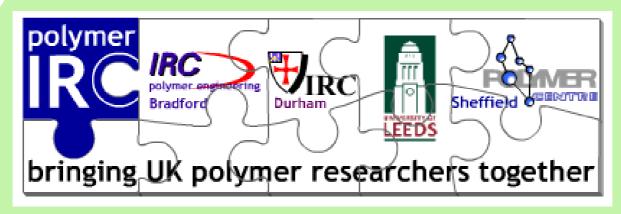
Chemistry

Polymer Materials Science



Engineering

Physics/Chemistry/Appl. Maths

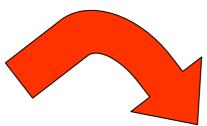
The Polymer IRC



- A focal point for UK Polymer/Soft Matter Science since 1989
- Connecting Industry and Academia
- Linking Chemistry-Physics-Engineering
- >100 staff over 4 sites + >150 PhDs and PDRAs
- Research spend of ~£5M p.a.
- Core Science + Knowledge Transfer
- Industrial training and conferences

Evolve or Die!



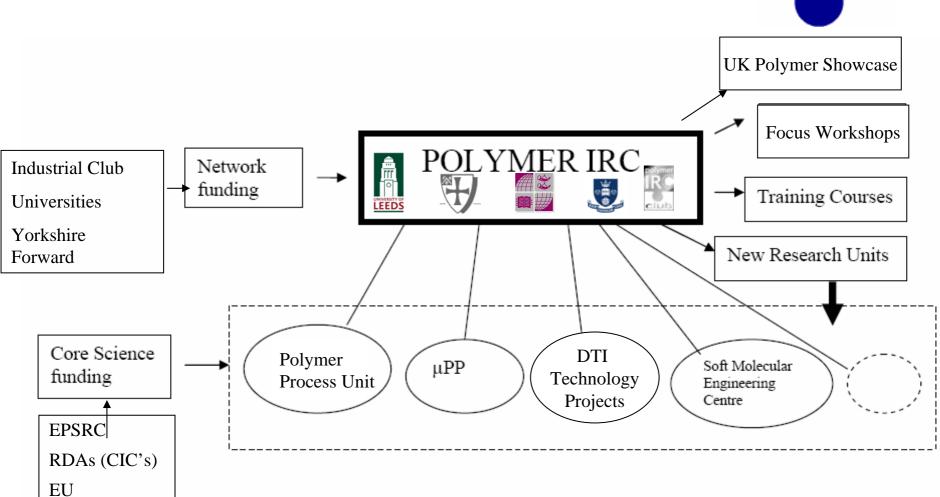




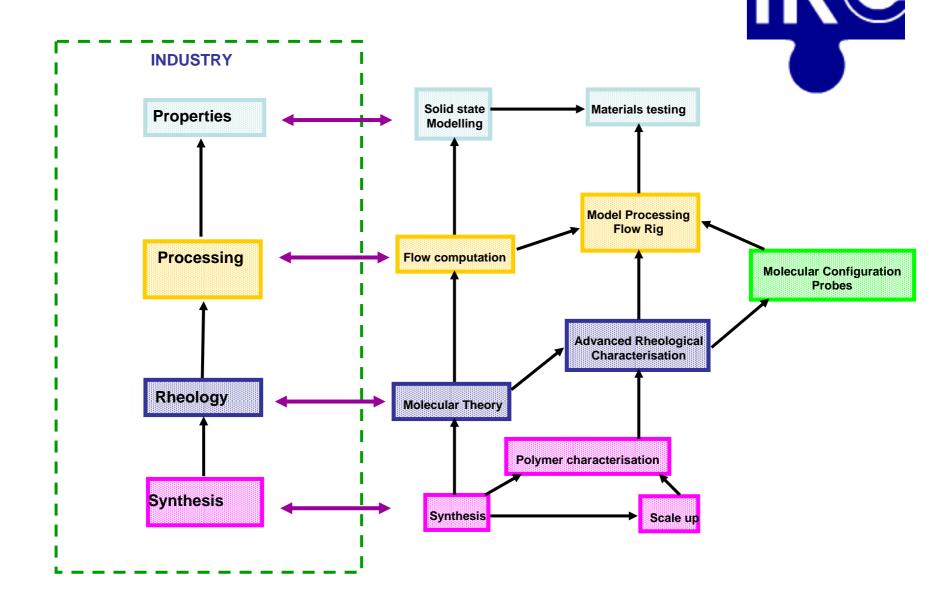
Structure

DPI





The Scaffold Concept



polymer

Current Industrial Club:

The low-subscription IRC Industrial Club gives industry rapid access to know-how, science, training and research teams across the IRC. Benefits include:

- Easy access to teams and facilities;
- Guaranteed Showcase Places;
- Road-Mapping Workshops;
- Discounts on Training Courses;
- Technology alerts.

DSM

ICI

Invista Performance Technologies

Dupont Teijin Films

Infineum

Mitsubishi

Unilever + Unilever Corporate Research

Victrex

Smith and Nephew

Dow

CYTEC

Arizona Chemical

Artenius

Bayer

Proctor and Gamble

4 Core Universities

Vertellus Chemicals

Huntsman Core Technology Group

Scott Bader

Mitsui Chemical

Goodfellow

SABMiller





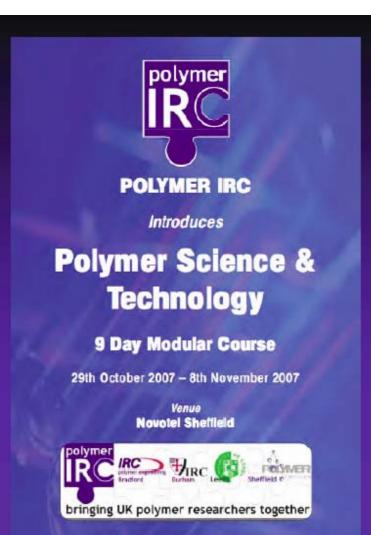


Activities:

- Industrial Club meetings spring and autumn
- "UK Polymer Showcase Autumn Meeting"
 - ➤ This year York, 16 18 September
- Evolving research programme
- Training courses for PhDs and industry
- Rapid-Reaction Platform for projects and networks
- Scoping Workshops

Annual Polymer Materials Course

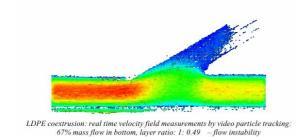
- Week One
 - Basic Polymer Science
 - Polymer Characterisation & Analysis
 - Polymer Chemistry
 - Polymer Engineering (Polymer Processing)
 - Polymer Physics
- Week Two
 - Multi-phase Polymer
 Materials and Composites
 - Polymer Dynamics and Macromolecular Rheology
 - Polymeric Biomaterials
 - Polymer Nanotechnology

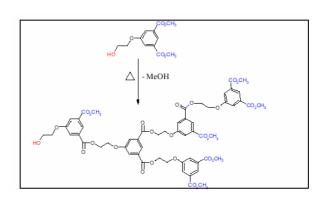


Current Themes:

(1) Novel Architectures

- Control of polymer processing
- Drug delivery
- Smart sensors







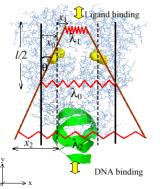
(2) Reactive Blending

- Advanced composites for aerospace
- Molecular design of adhesives
- High performance packaging



(3) Polymers for electronics

- Novel photovoltaics
- Conductive polymers
- Flexible batteries



(4) Biopolymer Science

- Cell culture media
- Renewable materials
- Bio-nano devices



(5) Microscale Polymer Processing

- Molecular design of new resins
- Multi-scale modelling of processes
- Advanced property control