

A Roadmap for 21st Century Chemical Engineering

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Roadmap Topic Areas

- Sustainability and Sustainable Chemical Technology
- Health, Safety, Environment and Public Perception of Risk
- Energy – Securing Reliable and Affordable Supplies in the Near Term
- Food and Drink
- Water
- Bioprocess and Biosystems Engineering

Health, Safety, Environment and Public Perception of Risk

- Risk – Its Management and Public Understanding
 - Lead – Martin Goose
- Performance – Health, Safety and Environmental Culture
 - Lead – John Atherton
- Open Dialogue – Learning from Past Successes and Failures
 - Lead – Robin Turney

Position - Risk

- IChemE will reach out to the public, other professional institutions, governments and regulators, media, NGOs, employers and industry representatives to build a common understanding of risk issues.
- Chemical engineers and IChemE will seek to exert greater influence on the process sector, regulators and academia to develop and utilise new ways for cost effective and sustainable risk reduction. This may be carried out in conjunction with other relevant professional bodies.

Position - Performance

- IChemE will engage with corporate leaders, regulators, and other professional bodies to create cultures that deliver real improvements in H, S and E performance, and have benefits to all.

Position - Open Dialogue

- IChemE will work to influence industry groups and regulators to take a more proactive approach to passing on lessons learnt. We will strive to break down the barriers that blame and litigation create to prevent lessons from accidents being rapidly disseminated to those who would benefit through the adoption of 'just cultures' that focus on learning, not on establishing blame.

Action Plans

- For each of the three topic areas
- Deliverables at 2, 5 and 10 years