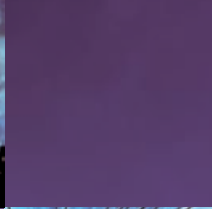
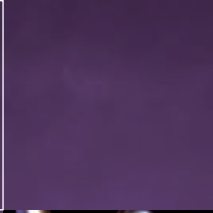
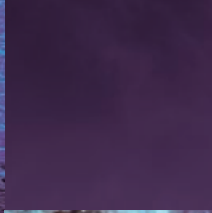
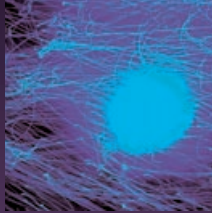


Technical Outreach at



December 2009

A Strategy Overview

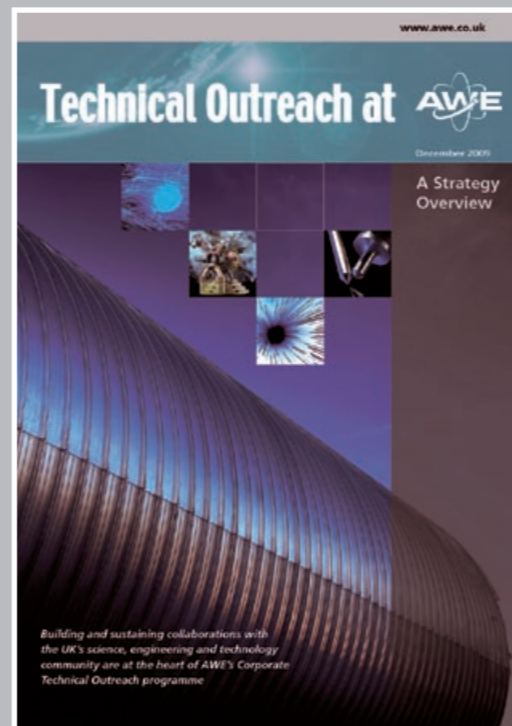


Building and sustaining collaborations with the UK's science, engineering and technology community are at the heart of AWE's Corporate Technical Outreach programme

Technical Outreach at AWE

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Background

The Atomic Weapons Establishment (AWE) has played a crucial role in the defence of the United Kingdom for more than 50 years. Our Vision is to achieve international recognition as a centre of scientific, engineering and technological excellence.

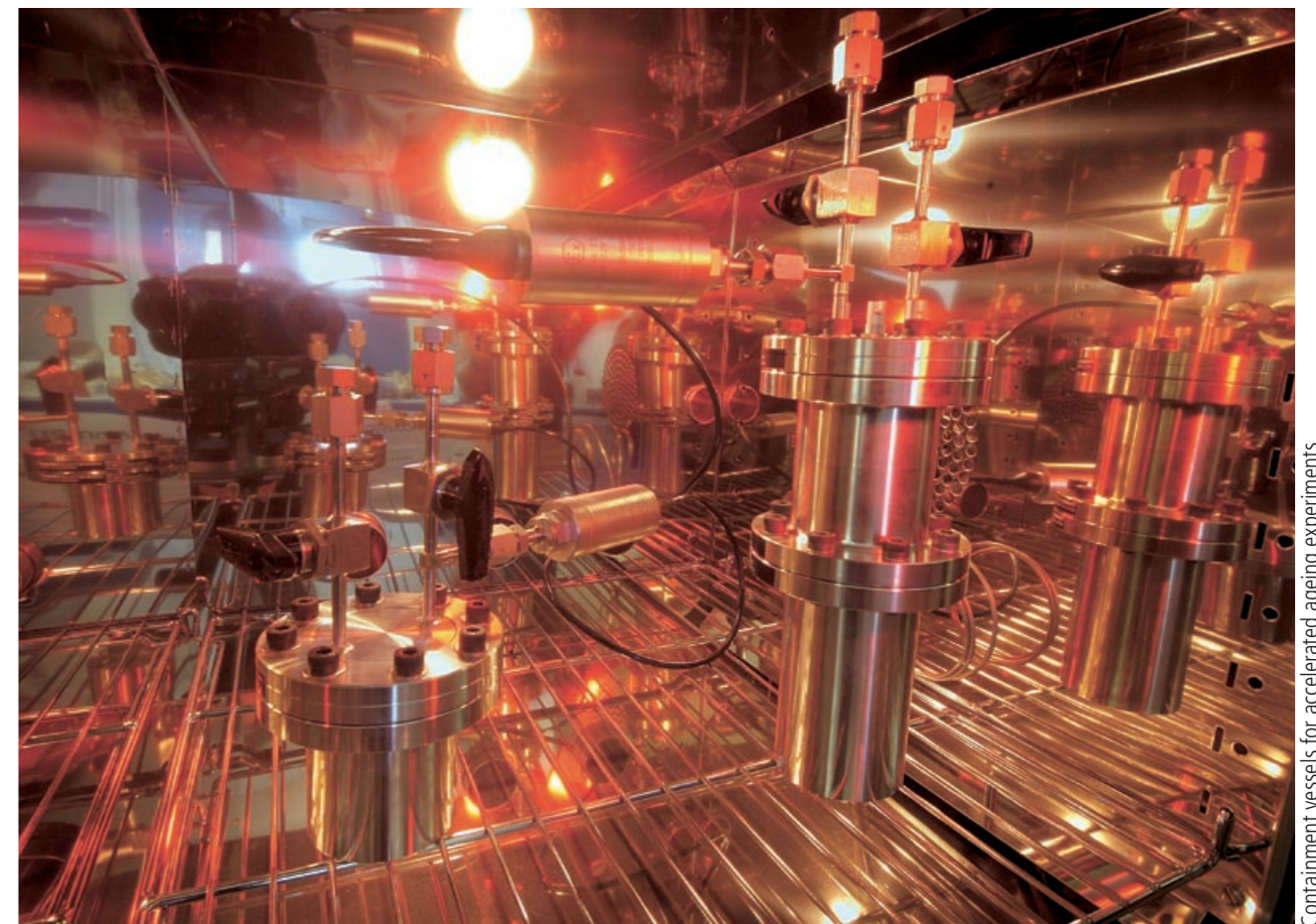
In the years ahead, AWE continues to support our government customers and work with our stakeholders on programmes of national importance. We recognise that we cannot be successful in meeting these challenges by working in isolation. We continue to build collaborations across a broad front to access the people, facilities and institutions

that can affect or add value to our work. We also need to be able to attract some of the most talented people in the country to work in our company.

AWE strives to seek and explore a strategic approach to its diverse Technical Outreach activities. We work hard in developing and sustaining

partnerships and alliances to the mutual benefit of the organisations with which we collaborate. This approach will enable us to meet our programme requirements and achieve a position of influence and respect within the international Science, Engineering and Technology (SET) community.

'AWE strives to seek and explore a strategic approach to its diverse Technical Outreach activities'



Containment vessels for accelerated ageing experiments

Strategy Statement

The purpose of the Corporate Technical Outreach strategy is to provide a coherent and consistent strategic framework for Technical Outreach activities across our company.

In this context, the top-level strategy for Corporate Technical Outreach at AWE is:

'To facilitate, through appropriate external interactions, the development and/or enhancement of the capability and resources needed to fulfil the company Mission and to achieve its Vision, and in the process, to enhance and sustain AWE's reputation and influence in the wider technical community.'

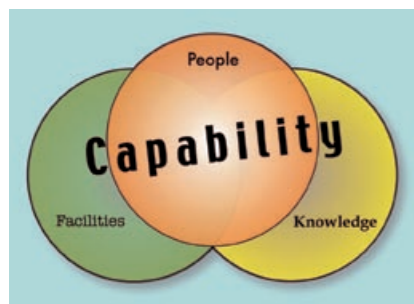
Requirements

The top-level Corporate Technical Outreach strategy can be further defined in terms of the specific requirements, functions and responsibilities, which are detailed below:

- To raise the profile, image and reputation of AWE within the external scientific and technical community to influence policy, investment priorities and standards, i.e. developing influential relationships.
- To benefit from the knowledge, expertise and facilities of academia, institutions and industry, i.e. acquiring new knowledge and/or capability.

- To promote AWE's science, engineering and technological capabilities through collaboration to support the UK's deterrent posture.
- To benchmark with external bodies and experts to assure AWE's capabilities and pursue best practice.
- To enhance the professional aspirations of AWE staff to facilitate staff retention and foster a creative and innovative culture.
- To attract high calibre scientists and engineers to AWE, e.g. undergraduate students, PhD/EngD students and Post Doctoral Research Fellows, and develop and sustain scarce-skill recruitment streams.
- To facilitate leveraged R&D directly through seed-corn funding, and indirectly via AWE's R&D programmes.
- To improve value-for-money for AWE and its customers.
- To gain access to research facilities at other sites that would otherwise be unavailable or only available at substantially greater cost, thereby protecting AWE's dependencies in key areas.
- To maintain an awareness of relevant technical developments in the outside world.
- To promote AWE's key areas:
 - Design Physics
 - Hydrodynamics
 - Plasma Physics
 - Materials Science
 - High Performance Computing
 - Systems Engineering
 - Production
 - National Security
 - Treaty Verification

These requirements are about achieving and maintaining an overall technical capability that provides confidence AWE will achieve its Mission through excellence in SET.



Key elements of our Corporate Technical Outreach Strategy

Implementation

Corporate Technical Outreach is concerned with maintaining capability in an intellectual/academic sense and therefore seeks to implement the strategy through a number of academically focussed themes involving universities, industry, the professional bodies, government organisations and other groupings that, in their totality, constitute the UK SET community.

This model for engagement with the SET community allows appropriate research to be commissioned, AWE's reputation to be enhanced, key relationships and networks developed, scarce-skills recruitment to be facilitated, and off-site resources accessed. These combined activities represent the principle areas where timely outcomes are key to implementing the Corporate Technical Outreach strategy.



Rapid prototyping capability

The main themes of interaction are:

- Strategic Alliances
- Academic/industry collaboration and partnering
- Fellowships & Chairs
- Strategic Interventions
- Student Sponsorship
- Research Funding
- Corporate Sponsorship

'These combined activities represent the principle areas where timely outcomes are key to implementing the Corporate Technical Outreach strategy.'

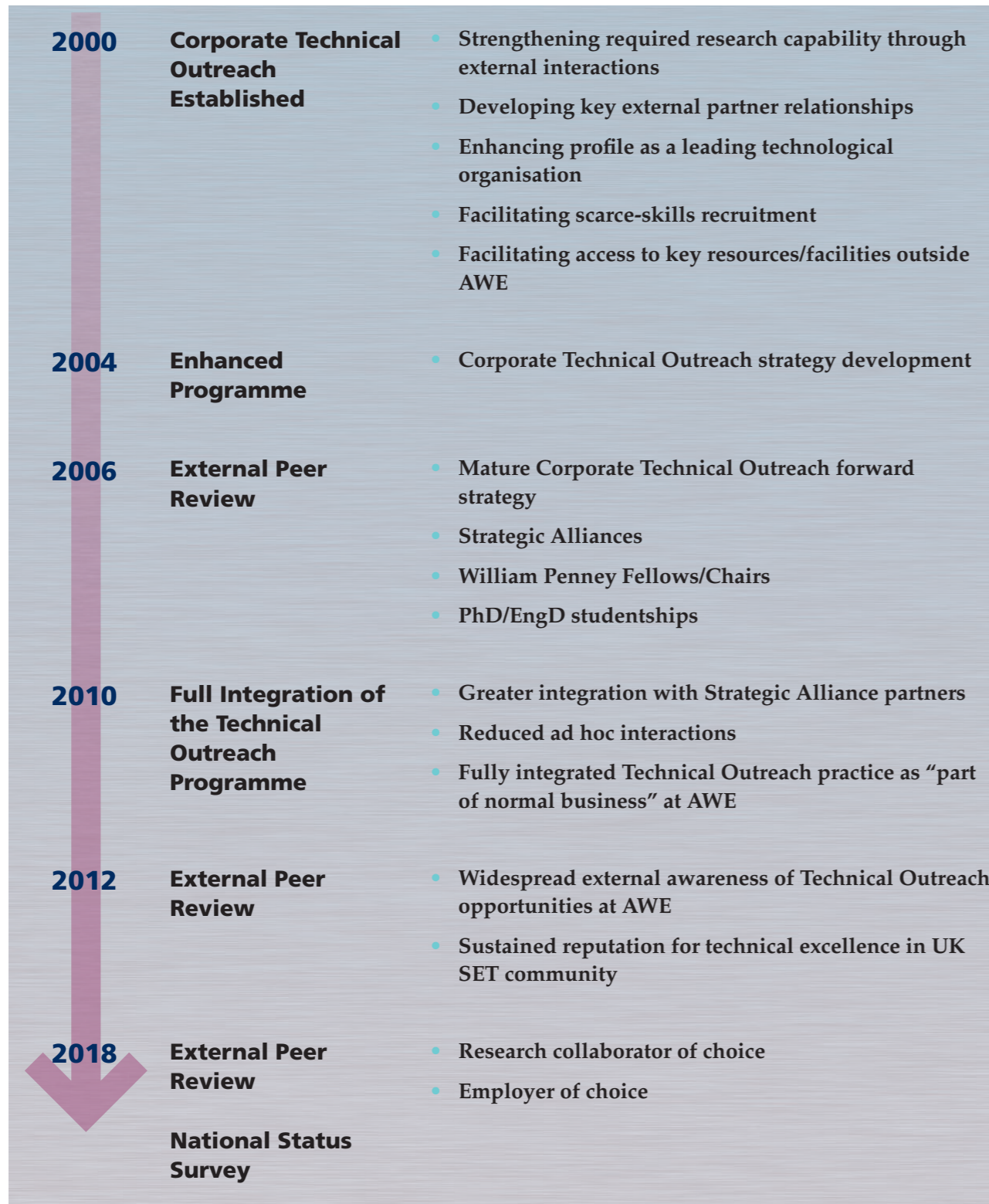


Cray XT3 (Redwood) Supercomputer

Corporate Technical Outreach Road Map

The Corporate Technical Outreach development road map is shown below. It covers the period from the launch of the Corporate Technical Outreach programme in 2000 through to 2018.

By 2018, it is anticipated that the Corporate Technical Outreach programme will have reached a high degree of maturity across AWE.



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AWE Media & Publishing Group

Find out more about AWE at our website:

www.awe.co.uk

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