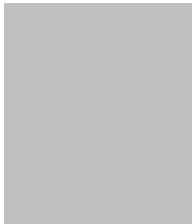


PERSONAL INFORMATION

Elizabeth Surrey



8 Elm Road, North Moreton, Didcot, OX11 9BB, U.K.

+44 1235 466208 +44 779 626 3292

Elizabeth.surrey@ukaea.uk

Sex F | Date of birth 08/11/1960 | Nationality British

POSITION

Technical Advisory Panel Member

WORK EXPERIENCE

2011- **Head of Technology Programme**

UKAEA, Culham Science Centre, Abingdon, OX14 3DB, UK

- Responsible for setting the UKAEA Technology Programme strategy, content and budget ensuring delivery to time and budget. The Technology Programme covers power plant design, safety, materials technology, design codes and standards, manufacturing, and engineering design, equipment qualification, nuclear data and radiation transport, high heat flux engineering. Expert analysis skills to IO, F4E, Eurofusion and industrial applications.

Business or sector Public Sector Research

EDUCATION AND TRAINING

1982-86) **PhD**

Replace with EQF (or other) level if relevant

Polytechnic of North London

- Low temperature plasma physics, plasma diagnostics, microwave transmission.

PERSONAL SKILLS

Mother tongue(s) English

Other language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|-----------------------|--|-------------|--------------------|-------------------|-------------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| Replace with language | Enter level | Enter level | Enter level | Enter level | Enter level |
| | Replace with name of language certificate. Enter level if known. | | | | |
| Replace with language | Enter level | Enter level | Enter level | Enter level | Enter level |
| | Replace with name of language certificate. Enter level if known. | | | | |

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Many years experience in public scientific speaking at conferences and in high level management meetings. Multiple written scientific papers. Attendance at various board and advisory panels including TWI, NNL, IAEA

Organisational / managerial skills

- Leadership of ~60 people in Technology Dept and ~ 20 others from other departments working on Technology Programme of value c.€5M. Leadership of UK Govt funded Fusion Technology Facilities c.

€40M. Chair of IAEA DEMO Fusion Workshop 2015-2019. Chair of 28th IAEA Fusion Energy Conference. Member of SOFE, TOFE, ISFNT conference committees. Editor Fusion Technology for IEEE Transactions on Plasma Science.

Job-related skills ▪ Wide experience of fusion related engineering and operational applications. Organisation of conferences and meetings.

Digital competence

| SELF-ASSESSMENT | | | | |
|------------------------|---------------|------------------|--------|-----------------|
| Information processing | Communication | Content creation | Safety | Problem solving |
| Independent | Independent | Basic | Basic | Independent |

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

Replace with your other computer skills. Specify in what context they were acquired. Example:
 ▪ good command of office suite from day job

Other skills Replace with other relevant skills not already mentioned. Specify in what context they were acquired. Example:
 ▪

Driving licence Replace with driving licence category/-ies. Example:
 B

ADDITIONAL INFORMATION

Publications

- Assessing Component Suitability and Optimizing Fusion Plant Design – Alternative Approaches to TRLs, IEEE Transactions on Plasma Science Special Issue - Selected Papers from SOFE 2017;
- Engineering challenges for accelerated fusion demonstrators, E. Surrey Proc Roy Soc, February 2019 <https://doi.org/10.1098/rsta.2017.0442>
- A New Facility for Combined-Load Testing of Fusion Reactor In-Vessel Components, IEEE Transactions on Plasma Science (Volume: 48 , Issue: 6 , June 2020) DOI: 10.1109/TPS.2020.2968405
- Virtual Engineering of a Fusion Reactor: Application to Divertor Design, Manufacture, and Testing, IEEE Transactions on Plasma Science (Volume: 47 , Issue: 1 , Jan. 2019), DOI: 10.1109/TPS.2018.2856888

Memberships IoP Fellow, C Phys, IEEE

ANNEXES

Replace with list of documents annexed to your CV. Examples:
 ▪ copies of degrees and qualifications;
 ▪ testimonial of employment or work placement;
 ▪ publications or research.