

## Fusion energy using tokamaks: can development be accelerated?

26 – 27 March 2018

Organised by Professor Colin Windsor FRS, Professor Dennis Whyte, Dr Jack Connor FRS, Dr Melanie Windridge and Professor Guenter Janeschitz.

Monday 26 March			
<b>SESSION 1:</b> Fusion's overview Chair: Colin Windsor FRS		<b>SESSION 3:</b> Towards the future Chair: Melanie Windridge	
<b>09.00</b>	Welcome by the Royal Society & Colin Windsor FRS		
<b>09.10</b>	<b>Daniel Clery</b> Alternatives to tokamaks: a faster-better-cheaper route to fusion energy?	<b>13.30</b>	<b>Howard Wilson</b> Talk title tbc
<b>09.40</b>	Discussion	<b>14.00</b>	Discussion
<b>09.55</b>	<b>Tony Donn�</b> Talk title tbc	<b>14.15</b>	<b>Ian Chapman</b> The UKAEA Strategy for delivering fusion power
<b>10.25</b>	Discussion	<b>14.45</b>	Discussion
<b>10.40</b>	Coffee	<b>15.00</b>	Tea
<b>SESSION 2:</b> Current projects Chair: Dennis Whyte		<b>SESSION 4:</b> The question of size Chair: Keith O'Nions FRS	
<b>11.05</b>	<b>Guenter Janeschitz</b> Talk title tbc	<b>15.30</b>	<b>Hartmut Zohm</b> On the size of tokamak fusion power plants
<b>11.35</b>	Discussion	<b>16.00</b>	Discussion
<b>11.50</b>	Speaker tbc	<b>16.15</b>	<b>Melanie Windridge</b> Smaller and quicker with STs and HTS
		<b>16.30</b>	<b>Alan Costley</b> Towards an ST Fusion pilot plant
<b>12.20</b>	Discussion	<b>16.45</b>	Discussion
<b>12.35</b>	LUNCH	<b>17.00</b>	Poster session
		<b>18.15</b>	CLOSE

**Tuesday 27 March**

<b>SESSION 5: Future projects</b> Chair: Jack Connor FRS		<b>SESSION 7: The economics of fusion</b> Chair: Guenter Janeschitz	
<b>09.00</b>	<b>Jonathan Menard</b> Talk title tbc	<b>13.30</b>	<b>Niek Lopes Cardozo</b> What is the value proposition of fusion energy?
<b>09.30</b>	Discussion	<b>14.00</b>	Discussion
<b>09.45</b>	<b>Dennis Whyte</b> Small, modular and economically attractive fusion enabled by HTS superconductors	<b>14.15</b>	<b>Paul Thomas</b> The economics of size
<b>10.15</b>	Discussion	<b>14.45</b>	Discussion
<b>10.30</b>	Coffee	<b>15.00</b>	Tea
<b>SESSION 6: Engineering fusion</b> Chair: Tom Todd		<b>SESSION 8: Discussion</b> Chair: Richard Hawryluk	
<b>11.00</b>	<b>Elizabeth Surrey</b> Engineering challenges for Accelerated Demonstrators	<b>15.30</b>	Open discussion: a road-map to accelerated fusion
<b>11.30</b>	Discussion		
<b>11.45</b>	Speaker tbc	<b>16.30</b>	<b>Colin Windsor FRS</b> Summary and closing remarks
<b>12.15</b>	Discussion		
<b>12.30</b>	LUNCH	<b>17.00</b>	CLOSE

*Draft programme – correct as of 31 July 2017 – subject to change*