# Satellite Communication Systems Course 2019

**16-20 September 2019**

99 City Road, London, UK

---

<table>
<thead>
<tr>
<th>Mon 16 September 2019 99 City Road, London</th>
<th>Tues 17 September 2019 99 City Road, London</th>
<th>Weds 18 September 2019 99 City Road, London</th>
<th>Thurs 19 September 2019 99 City Road, London</th>
<th>Friday 20 September 2019 99 City Road, London</th>
</tr>
</thead>
</table>
| **MODULE 1**
SATCOMS ESSENTIALS | **MODULE 2**
LINK ENGINEERING | **MODULE 3**
ANTENNAS AND SPACECRAFT ENGINEERING | **MODULE 4**
NETWORKS AND SYSTEM DESIGN | **MODULE 5**
WORKSHOP EXERCISES & INMARSAT TOUR |
| **08:30** Refreshments and registration | **08:45** Arrival refreshments | **08:45** Arrival refreshments | **08:45** Arrival refreshments | **08:45** Arrival refreshments |
| **09:00** IET and Chairman’s welcome
David Bookham
BDE Space | **09:00** Session 5
Link Budget Primer
Tim Tozer
University of York | **09:00** Session 9
Antennas
Tim Waterfield
Airbus DS | **09:00** Session 13
Earth Station RF Engineering
David Bookham
BDE Space | **09:00** Session 17
Project briefings:
Earth station design
Project leader: David Bookham, BDE Space |
| **09:05** Session 1
Principles and background of Satellite communications
David Bookham
BDE Space | **10:30** Refreshment break | **10:30** Refreshment break | **10:30** Refreshment break | **10:30** Refreshment break |
| **11:00** Session 2
Commercial Aspects of Satcoms
David Jowsey
BT Media & Broadcast | **11:00** Session 6
Modulation and Coding for Satellite Systems
Tim Tozer
University of York | **11:00** Session 10
Satcom on the Move (SOTM)
Dr. Kevin Shaw
Joint Forces Command, MoD | **11:00** Session 14
TCP/IP and Satellite
Gorry Fairhurst
University of Aberdeen | **11:00** Project 1
Room 1 |
| **12:30** Lunch | **12:30** Lunch | **12:30** Lunch | **12:30** Lunch | **12:30** Lunch |
| **13:30** Session 3
Milsatcoms
Dave Davis, Technical Director - Global Service Provider Group, VT iDirect | **13:30** Session 7
Satellite System Planning - Power Link Budgets
Barry Evans
University of Surrey | **13:30** Session 11
Spacecraft Engineering & Operations
Alan Howell, Chief Space Segment Architect, Inmarsat | **13:30** Session 15
Propagation
Alan Stocker
University of Leicester | **14:15** Project Presentations |
| **15:00** Refreshment break | **15:00** Refreshment break | **15:00** Refreshment break | **15:00** Refreshment break | **15:00** Refreshment break |
| **15:30** Session 4
Emerging Technologies – Satellite-5G Future Vision
Paul Febvre, Satellite Applications Catapult | **15:30** Session 8
QoS Design Using Link Budgets
Barry Evans
University of Surrey | **15:30** Session 12
Payload Engineering
Daryl Jones
Airbus DS | **15:30** Session 16
Satellite Access Techniques
Paul Mitchell
University of York | **15:15** Session 19
Inmarsat onsite tour
99 City Road |
| **16:45** Course Roundup | **17:00** Close of Day 1 | **17:00** Close of Day 2 | **17:00** Close of Day 3 | **17:00** Event close |
| **17:00** IET Satellite TPN Networking Evening (the Singer Tavern) |

Programme is correct at time of publishing. Topics and speakers are subject to change.