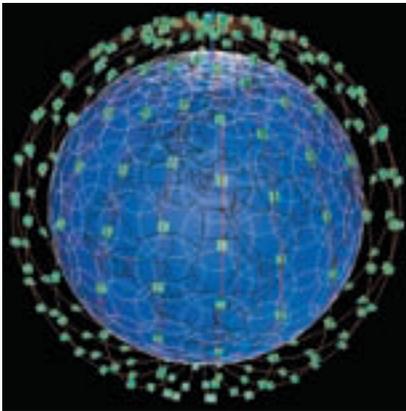


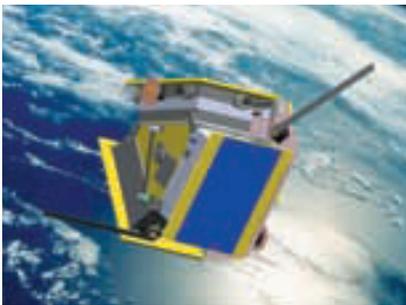
Research in the Department of Electronic Engineering



Low Earth satellite constellation: CCSR specialises in Mobile and Satellite Communications.

(Image rendered using SaVi, the Satellite Visualisation package, from the Geometry Center, USA)

Computer simulation of SNAP-1. The world's first nanosatellite was built at Surrey and launched in 2000.



The Centre for Communication Systems Research (CCSR)

Did you know... when you communicate via your mobile phone, PC or MP3, you are most likely benefiting from technology developed by research produced in CCSR?

CCSR is the largest academic communications research centre in the UK. Its work in mobile communications, multimedia systems and networking is internationally recognised. The Centre is a major player in European Union Framework research projects; is a member of the UK Virtual Centre of Excellence in Mobile and Personal Communications and a member of both Nokia and Ericsson's global university alliances.

Research covers all aspects of mobile communications, and for example produced the technology for:

- Advanced signal processing to provide improved handset receivers
- Handset and base station antennas to improve coverage
- Improved speech quality and video streaming
- Multiparty multimedia conferencing
- Advanced security systems for mobile communications

A new mobile multimedia laboratory, called the I-Lab, is opening in 2004. It will combine

'media-lab' approach with wireless systems and specifically involve work with users on new services and applications. As well as technologists this will involve psychologists, sociologists and economists working in a multi-disciplinary environment.

CCSR has around 120 researchers including 65 PhD students.

www.ee.surrey.ac.uk/CCSR

Surrey Space Centre (SSC)

Did you know...Surrey Space Centre has built and launched 21 satellites in 21 years?

For more than 20 years, the Surrey Space Centre has been providing rapid and cost-effective applications for small satellites through the development of miniaturised satellite technologies.

The achievements of the Centre have led to worldwide recognition as a foremost research and development organisation and the formation of a spin-off commercial company, Surrey Satellite Technology Ltd. Through its unique position in combining academic research alongside a commercial space enterprise employing 150 professional staff, the Centre offers customers the benefits of a highly respected satellite manufacturer and a thriving academic research group.