



CORNERSTONE 2 Proposed New Platforms

Prof Graham T. Reed (University of Southampton)

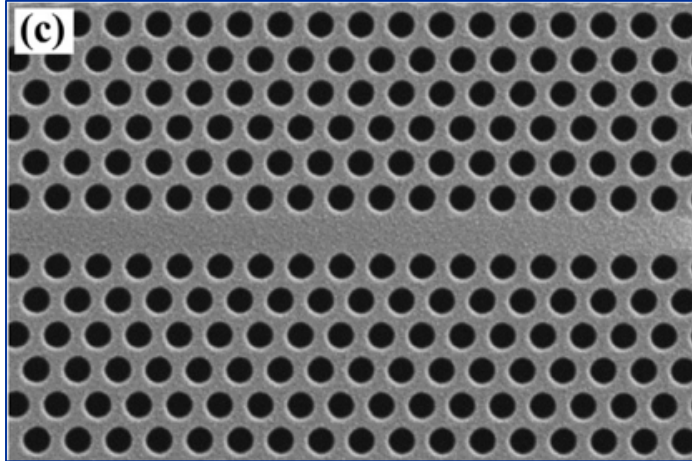
Prof Marc Sorel (University of Glasgow)

CORNERSTONE 2 – SEEKING PARTNERS!

Silicon nitride

Applications:

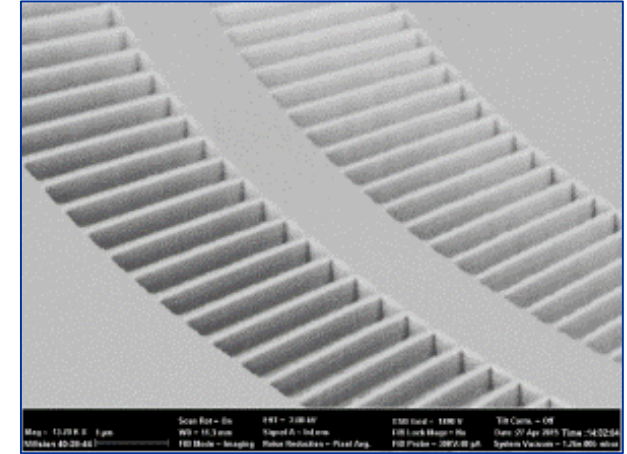
- Low-loss passive Si photonics
- Visible wavelengths
- Quantum photonics



Suspended waveguides

Applications:

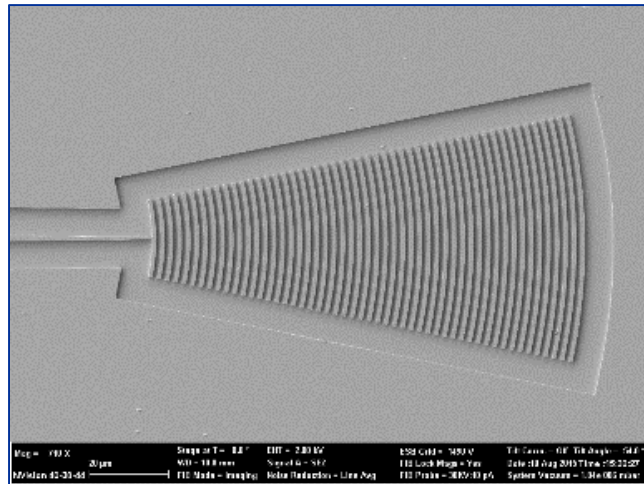
- Mid-IR sensing
- MEMS/MOEMS



Germanium-on-Silicon

Applications:

- Mid-IR silicon photonics
- Sensing



EIC bonding and III-V pick and place

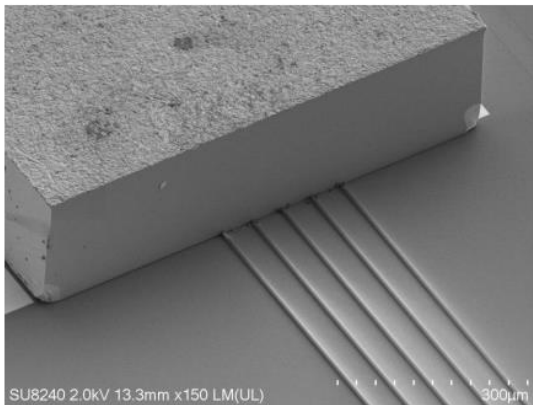
Applications:

- Integrated transceivers
- Light sources and detectors

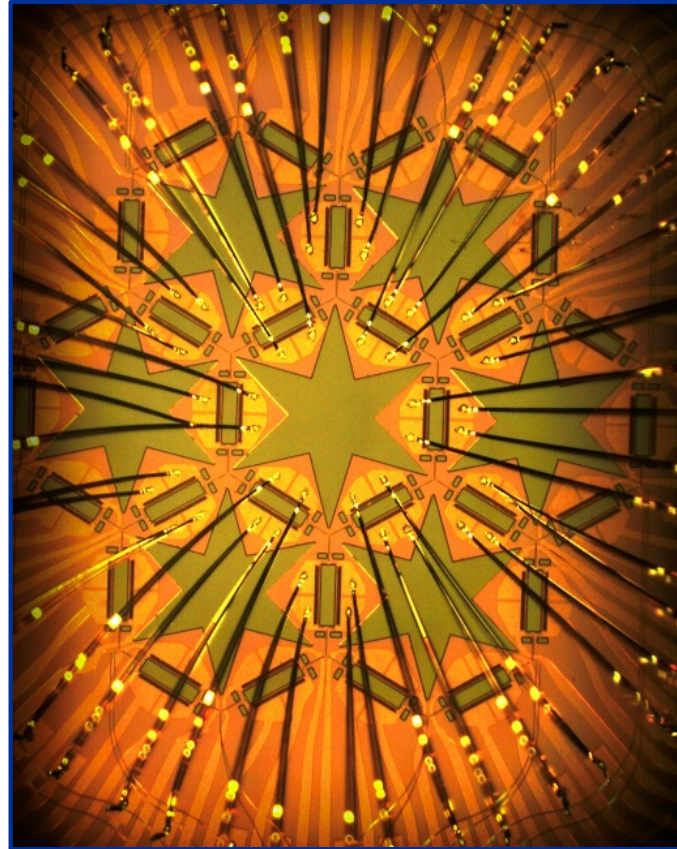


Proposed bonding capabilities

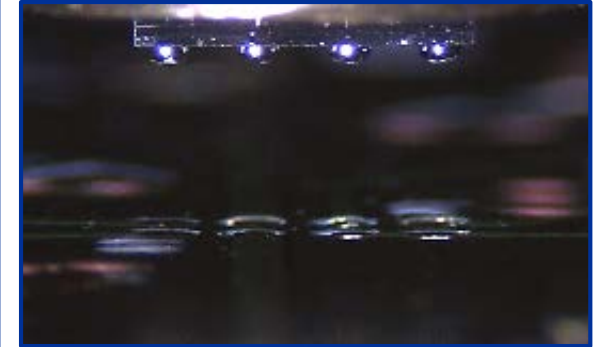
Pick and place



Wire bonding



Flip-chip bonding



Wafer-scale testing capability

- Wafer-scale tester to be installed at University of Southampton in coming months
- Rapid wafer-scale testing possible
 - Process confirmation
 - Paid capability for external users

