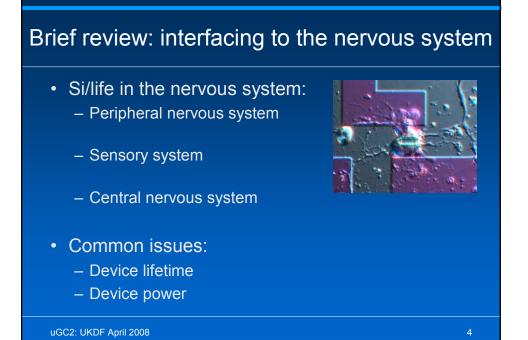


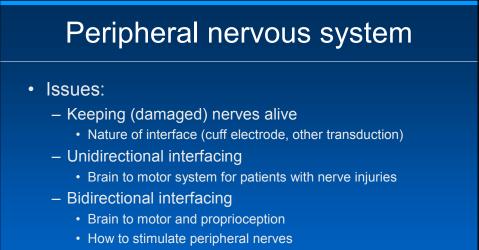


Where are we going?

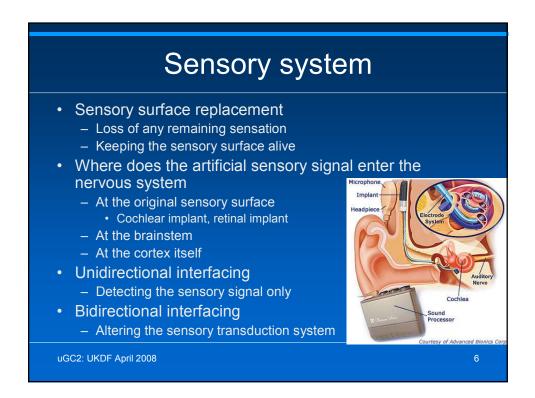
- Man/machine interfacing
 - Richer, more natural user interfaces
 Better hardware and software
- Better, more effective brain/computer interfacing
 - Better than EEG? Higher bandwidth?
- Effective systems for interfacing electronics and living systems
 - For diagnostics, for understanding neural systems, for (invasive) BCI
 - Perhaps for hybrid machines and cyborgs?

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Central nervous system

Implants

- Not damaging the brain surface
 - Brainstem, or cortex
- Keeping the brain area alive
 - Toxicity
- Unidirectional interfacing (brain to elsewhere)
 Signal coding
- Bidirectional interfacing (elsewhere to brain)
 - Stimulation techniques
 - Not damaging anything

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