The IEEE South Australia Section Committee invites you and your partner to the Annual Dinner and Lecture:

**Exploring the Dark Continent of the Human Body—**

*An unexpected voyage of discovery for a naïve optical fibre telecommunications engineer*

**Professor John Arkwright**

South Australian Premier's Professorial Research Fellow in Biomedical Engineering

Flinders University

**Venue:** Adelaide Pavilion

Corner of South Terrace and Peacock Road, Adelaide

**Date:** 28 October 2015

**Time:** Pre-dinner Drinks 6:00 pm - 7:00 pm

Dinner & Lecture 7:00 pm - 10:00 pm

**Venue:** Adelaide Pavilion

Corner of South Terrace and Peacock Road, Adelaide

**Three Course Dinner and Drinks**

RSVP: Remove the slip below and return completed to IEEE SA Section by 21st October 2015

**Dress Code:** Neat Casual

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**Name**

**Address**

**Telephone**

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**Special dietary requirements**

**Method of payment**

- Cheque
- Cash
- Visa
- MasterCard

- EFT*

*Account name: IEEE-SA section*

**Signature**

Credit Card payments will incur a 2.5% surcharge

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**2015 Annual Lecture and Dinner**

**Sign up for:**

- IEEE Member $70
- Member’s partner. Name: __________________ $70
- Non-member $90
- Non-member’s partner. Name: ____________________ $90
- IEEE Student Member $40
- Student member’s partner. Name: ________________ $40

**Total:**

All prices include GST.
IEEE South Australia Section Annual Lecture

Exploring the Dark Continent of the Human Body-
An unexpected voyage of discovery for a naïve optical fibre telecommunications engineer

Professor John Arkwright
South Australian Premier's Professorial Research Fellow in Biomedical Engineering
Flinders University

In 2003 the telecommunications industry went into a tail-spin and I needed a new job. With the arrogance of ignorance I decided that it would be pretty easy to apply my hard-won expertise in optical fibre technology to in-vivo measurement and diagnostics. In this evening’s talk I will describe how we have adapted optical fibre sensors and hardware common in the telecommunications industry to measure the muscular activity in the colon; the ‘Dark Continent’ of the human body.

Biography

Professor John Arkwright has an extensive background in optical fibre technology and devices, initially for the telecommunications industry and, more recently, for biomedical sensing. He has worked in both industrial R&D and academic roles always with an emphasis on developing and commercialising new technologies. He has experience at many different levels from fundamental research to production line engineering. He is now working for Flinders University building a team focussed on the design, fabrication, and commercialisation of fibre optic catheters for in-vivo diagnostics.