



# IEEE

## IEEE South Australia Section

### Annual Distinguished Lecture and Dinner

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**



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

**Return to:**  
IEEE SA Section  
PO Box 53  
Elizabeth SA 5112

Phone: (08) 8201 5052  
Fax: (08) 8201 2904

E-mail: [south.australia@ieee.org](mailto:south.australia@ieee.org)

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone/Email \_\_\_\_\_

Special dietary requirements \_\_\_\_\_

Method of payment  Cheque  Cash  Visa  MasterCard  
 EFT\* **\*Account name: IEEE-SA section: BSB #: 06 5122  
Account #:0090 7594**

Credit Card # \_\_\_\_\_ Exp. date \_\_\_\_\_

Signature \_\_\_\_\_

### 2015 Annual Lecture and Dinner

Sign up for:	Price
<input type="checkbox"/> IEEE Member	\$70
<input type="checkbox"/> Member's partner. Name: _____	\$70
<input type="checkbox"/> Non-member	\$90
<input type="checkbox"/> Non-member's partner. Name: _____	\$90
<input type="checkbox"/> IEEE Student Member	\$40
<input type="checkbox"/> Student member's partner. Name: _____	\$40
Total: _____	

All prices include GST.

Credit Card payments will incur a 2.5% surcharge



## 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.