



# Symposium to commemorate 50 years of LCD Research

Thursday, June 7<sup>th</sup> 2018

10.30 – 16.00

Prince Philip House, Royal Academy of Engineering, London

[Registration](#)

[Payment](#)

On Tuesday, 28<sup>th</sup> May 1968, at their headquarters in the Rockefeller Building in New York, RCA announced the world's first Liquid Crystal Display, based on the work of George Heilmeier and his team. Although RCA were to drop the R&D programme a few years later, this announcement stimulated researchers in the UK and Japan to instigate their own LCD research programmes, researchers that directly led to the success of the LCD seen today. This special event will include speakers involved in those early events, as well as those currently researching the next generation of LCD and related display technologies.

Confirmed Speakers include:

**Cyril Hilsum**, CBE, FRS, FEng. Chief Scientist at RSRE who initiated and led the collaboration between RSRE, Hull and BDH that led to the world's first stable room temperature liquid crystals, and was instrumental in using amorphous silicon for TFT in LCD.

**Martin Schadt**, Inventor of the Twisted Nematic Display that created the industry, as well as making fundamental contributions to photo alignment.

**Peter Raynes**, FRS. Made many of the key early inventions in LCD at RSRE, including the rules for producing wide temperature LCs, defect free alignment of the TN and the Supertwist Nematic LCD.

**Phil Bos**, Inventor of the pi-cell LCD and major contributions to non-display applications of LC, notably in the field of liquid crystal lenses and adaptive optics; long standing member of the Glenn Brown Institute at Kent, Ohio.

**Henning Sirringhaus**, FRS. Pioneer of Organic TFT for display applications, and founder of Plastic Logic and Eight19.

**MERCK**

Displaydata

**BOE**

FOLIUM  
OPTICS

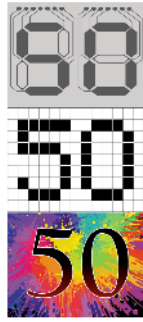
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**IOP** Institute of Physics

Refreshments and Lunch will be provided. An exhibition will also be held, including demonstrations from our sponsors.  
Symposium, lunch and exhibition: £80. SID Members £60. Student and concessions £50.



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- 10.00 Arrival and Coffee
- 10.30 *Introduction:* Cliff Jones, FEng
- 10.40 *The start of the revolution:* Cyril Hilsum, CBE, FRS, FEng
- 11.10 *From the TN to the modern LCD:* Martin Schadt
- 11.40 *Why are LCs so useful for displays:* Peter Raynes, FRS
- 12.10 *OFT and the route to flexible LCD:* Henning Sirringhaus, FRS
- 12.30 Lunch / Exhibition
- 13.30 *Novel LC Modes and applications:* Phil Bos, Liquid Crystal Institute ,Kent State University
- 14.00 *The History of LCD Development in Sharp:* Paul Gass, Sharp Laboratories of Europe
- 14.30 *The Future of Liquid Crystals:* Mark Verrall, Merck
- 15.00 *Displays for the retail sector:* Guy Bryan-Brown, DisplayData
- 15.20 *Reflective LCD:* John Rudin, Folium Optics
- 15.40 BOE OLED strategy and business plan, Jikai Yao, BOE
- 16.00 *Reflective displays using SRD:* Peiman Hosseini, Bodle Technologies
- 16.20 Coffee



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