40 Years of SID Symposia – Nurturing Progress in EL/OLED Technology

1960's

Mono EL Products

1965
First TFEL
Matrix Display
Sigmatron

1967
Double Insulator
TFEL Structure
U. of Toronto

Color EL Products

EL/OLED Phosphor

1968
First Rare Earth
Doped EL Phosphor
Bell Labs

Mid 1960's - 1970's
Organic EL / molecular
crystals - anthracenes
NRC (Canada), RCA

AMEL Prototypes

1970's

Mono EL Products

1974
Long Life/High
Brightness Display
Sharp

1974
First TFEL TV
Sharp

Color EL Products

EL/OLED Phosphor

AMEL Prototypes

1975-F
First TFEL Active
Matrix EL Display
Westinghouse

1980's

Mono EL Products

1982
High Contrast
Military TFEL Display
Aerojeet

1984
TFEL Device
Physics Model
IBM

1989
First TFEL
Workstation Display
Planar

1983 - First TFEL Portable
Computer Display
Sharp
Airport Flight Status Display
Planar

1985
Split Electrode
TFEL Panel
Planar

Color EL Products

1986
First Multicolor
Prototype
Planar

1987 – First Full Color
TFEL QVGA Prototype
Planar
Color by White
Tottori U.

EL/OLED Phosphor

1980
First Atomic ZnS:Mn Layer
Deposition TFEL Device
Planar

1984
SrS:Ce Blue
TFEL Phosphor
Planar

1987
Applied Physics Lett. paper
on diode-structure OLED
KODAK

AMEL Prototypes

1990's

Mono EL Products

1994
First Monochrome
TDEL Display
iFire

1994
Integrated High
Contrast Electrodes
Planar

Color EL Products

1993
First Multicolor
TFEL Product
Planar

1997
First Color
TDEL Display
iFire

1997
Color by White
QVGA TFEL Display
Planar

1999
First PM-OLED
display product
Pioneer

EL/OLED Phosphor

1993
Thiogallate Blue
TFEL Phosphor
Planar

1990
First PLED paper
in Nature
Cambridge U.

1997
SrS:Cu
TFEL Phosphor
Planar

1998
First Phosphorescent
OLED
Princeton/USC

1999
$BaAl_2S_4$:
Eu Blue Phosphor
Meiji U.

AMEL Prototypes

1994
First AMEL
on Si Wafer
Planar/Sarnoff/
Allied/Kopin

1996
12 Micron
Pixel AMEL
Planar/Sarnoff/
Allied/Kopin

1996
First Color
AMEL Display
Planar

1996
First AMOLED
demonstration (QVGA)
TDK

2000's

Mono EL Products

2000
Transparent
EL Products
Denso/Planar

2002
Filterless
TDEL Display
TDK

Color EL Products

2002
17" Full
Color TDEL Display
iFire

2001
0.72 Si-AMOLED
HMD
eMagin

2003
2.2" AMOLED/
Digital camera
Kodak

EL/OLED Phosphor

AMEL Prototypes

2002
Analog Color
VGA AMEL
Planar

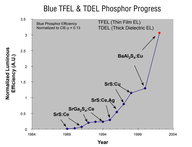
2001
13" SVGA
AMOLED
Sony

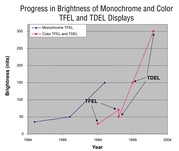
2002
15" 1280x720
AMOLED
Kodak/Sanyo

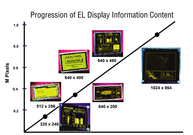
2003
24" tiled
AMOLED
Sony

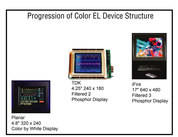
2001
2.1" 130 ppi
AMOLED
Seiko Epson/CDT

2003
20" aSi electro-
phosphorescent display
ChiMei/IDT/IBM









EL Developers

	SID Braun Prize	SID Fellows	SID Special Recognition
1	T. Inoguchi		T. Inoguchi
2	T. P. Brody	T. P. Brody	T. P. Brody
3		S. Mito	
4		C. Suzuki	C. Suzuki
5		L. Tannas	
6		P.M. Alt	P. M. Alt
7		C. King	
8		S. Tanaka	S. Tanaka
9		P. N. Yocom	