

# Latin American SID Chapter Report

Jun 2014 – Dec 2014

Alaide P. Mammana



# Latin American SID Chapter



## Activities Jun 2014/Dec 2014

LatinDisplay 2014  
Rio de Janeiro - Brazil  
Nov 10<sup>th</sup> - 12<sup>th</sup>, 2014

# Technical Meeting

## LatinDisplay 2014

BNDES – Rio de Janeiro – Brazil – Nov. 10<sup>th</sup> – 12<sup>th</sup>, 2014



Auditorium of BNDES where LatinDisplay 2014 took place.

LatinDisplay 2014  
Rio de Janeiro - Brazil - Nov 10<sup>th</sup> - 12<sup>th</sup>, 2014



## Objectives

- To present international advances and development in display technologies, display systems and related technologies
- To discuss materials, processes, equipment and characterization for displays and related technologies
- To present emerging technologies and new applications
- To provide updates on the status of Brazil in developing display technologies and manufacturing

LatinDisplay 2014  
Rio de Janeiro - Brazil - Nov 10<sup>th</sup> - 12<sup>th</sup>, 2014



## Topics

### Displays

- AMLCDs, OLEDs, curved, ultra-high definition, etc.
- TV, smart phone and tablet applications
- Trends and markets

### Special displays

- Military, automotive, avionic, industrial, medical, etc
- Trends and markets

### Tablets, touch panels, immersive and multimodal interfaces

- New technologies, interactivity, etc.
- Trends and markets

### Materials for ITO replacement

- Graphene, nano-buds, silver wires, etc.
- Applications
- Market forecast

LatinDisplay 2014  
Rio de Janeiro - Brazil - Nov 10<sup>th</sup> - 12<sup>th</sup>, 2014



## Topics

### Quantum Dot Technology

- Recent progress in quantum dots
- Benefits for displays, solar cells and lighting
- Market perspectives

### Lighting

- New improvements in LEDs: substrates, heat dissipation, packaging, luminance trends (lm/W), sorting, white balance, luminaires
- Manufacturing challenges
- Market trends and shares

### Solar cells

- a-Si, poly-Si, Cd-Se, perovskite, organic, etc.
- Infrastructure and manufacturing
- Market share and forecast

LatinDisplay 2014  
Rio de Janeiro - Brazil - Nov 10<sup>th</sup> - 12<sup>th</sup>, 2014



**General Chairman:** Margarida Baptista  
Assessor of BNDES Presidency

**General Co-Chairman:** Victor Pellegrini Mammana - Director of CTI.

**Program Chairman:** Adi Abileah - Adi Displays Consulting

**Program Co-Chairman:** Daniel den Engelsen - Abinfo

**Participants:** 25 members + 71 non-members: Total 96

### **Activities**

- Scientific and Technical Symposium
- Round Table
- Business Meetings
- DisplayEscola

# LatinDisplay 2014

Rio de Janeiro - Brazil - Nov 10<sup>th</sup> - 12<sup>th</sup>, 2014

Invited Lecture	Lecturer	Affiliation
Displays for automotive, avionics, military and medical applications	<i>Adi Aibileah</i>	Adi Display, USA
Graphene and Applications	<i>Antonio H. C. Neves</i>	NUS, Singapore
Are we there yet? Evolving displays to meet human needs	<i>Bob Raikes</i>	Meko, UK
Trends in lighting	<i>Daniel den Engelsen</i>	ABINFO, The Netherlands
LEDs and quantum dots	<i>Daniel den Engelsen</i>	ABINFO, The Netherlands
AMOLED display technology	<i>Gopalan Rajeswaran</i>	Grantwood Tech., USA
Touch Panel and touchless control - New opportunities in 2015 and beyond	<i>Jennifer Colegrove</i>	Touch Display Res., USA
Are quantum dots closing OLED-TV's window of opportunity?	<i>Kenneth I. Werner</i>	Nutmeg, USA
How many pixels are enough?	<i>Ken I. Werner (pres. by Bob Raikes)</i>	Nutmeg, USA
Advances in LED technology for low cost and high energy efficient lighting	<i>Munisamy Anandan</i>	Organic Lighting Tech. LLC, USA
Infrastructure and equipment for solar cell manufacturing	<i>Paul Breddels</i>	Rimas, The Netherlands
LEDs on Foil and the creation of novel flexible devices	<i>Paul Breddels</i>	Holst Center, The Netherlands
Silver nanowires and competing technologies	<i>Sriram Peruvemba</i>	Cambrios, USA



# LatinDisplay 2014

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*Opening Session*



*Dr. Munisamy Anandan presenting LEDs*



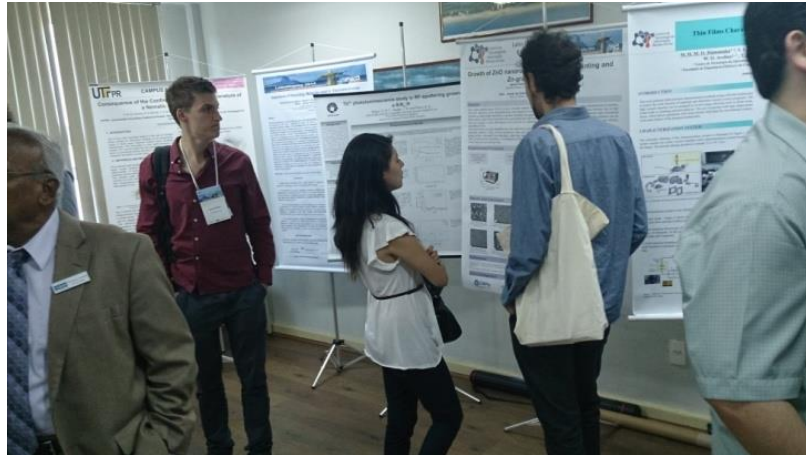
*The Round Table attracted a large audience*



*Dr. Jennifer Colegrove presenting touch screens*

# LatinDisplay 2014

Rio de Janeiro - Brazil - Nov 10<sup>th</sup> - 12<sup>th</sup>, 2014



*View of the Poster Session*



*Lectures of Dr. Gopalan Rajeswaran at DisplayEscola*



*The audience of DisplayEscola*



*Networking coffee*

# LatinDisplay 2014

Rio de Janeiro - Brazil - Nov 10<sup>th</sup> - 12<sup>th</sup>, 2014



*Sri Peruvemba teaching transparent and conductive materials at DisplayEscola*



*Dr. Luciano Coutinho, President of BNDES, closed LatinDisplay 2014y*



*Organizing Committee at work*



*Participants enjoying friendship during LatinDisplay*

LatinDisplay 2014  
Rio de Janeiro - Brazil - Nov 10<sup>th</sup> - 12<sup>th</sup>, 2014



## DisplaEscola

Lecture	Lecturer	Affiliation
Fundamentals of solar cells and status of photovoltaic power generation	<i>Gopalan Rajeswaran</i>	Grantwood Tech., USA
AMLCD technology and enhancement for harsh environment	<i>Adi Abileah</i>	Adi Display, USA
OLED lighting	<i>Munisamy Anandan</i>	Organic Lighting Tech. LLC, USA
Transparent and conductive thin films	Transparent and conductive thin films	Cambrios, USA

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## Participants

	Assoc	Companies	Technical Schools	Gov	Univ	P&D	Not informed	Sub total
Phd	0	17	0	3	13	15	0	48
Master	0	4	0	10	7	9	0	30
MBA	1	8	1	10	4	1	0	25
Graduate Students	0	2	0	2	2	1	0	7
Undergrad Students	0	0	0	0	2	5	0	7
Bachelors	1	8	0	1	0	2	0	12
Technicians	0	5	0	0	0	2	0	7
Not Informed	0	0	0	0	0	0	0	0
Subtotal	2	44	1	26	28	35	0	136



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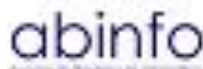
<a href="#">LatinDisplay 2014</a>	<a href="#">Structure of LatinDisplay 2014</a>	<a href="#">Areas covered</a>	<a href="#">Language</a>	<a href="#">Organization</a>
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## About LatinDisplay 2014

LatinDisplay 2014, to be held at INOSES, in Rio de Janeiro, RJ, in November 10th to 12th, 2014, is an event of the Society of Information Display (SID), of its Latin American Chapter (SID LTA Chapter), of the Brazilian Network for Displays (BrDisplay Network) and of the Ibero-American Network for Displays (Ibero American Display Network). The goal of LatinDisplay 2014 is:

- To discuss state-of-art displays: LCDs, AMOLEDs, plasma, OLEDs, transparent, electrowetting, reflective, projection, 3D, IMOD etc.
- To present emerging technologies and new applications.
- To discuss display sub-systems and components: backlight units (BLUs), optical film, etc.
- To discuss touch screens, tablets, digital boards, etc.
- To discuss related technologies: lighting (fluorescent lamps, LEDs, OLEDs), solar cells, organic electronics, batteries, sensors, nanotechnology, etc.
- To discuss materials, processes and equipment for displays and related technologies.
- To discuss the impact of display technologies on TV broadcasting, cinema, health, e-books, media, advertisement, signage, military, aerospace, etc.
- To discuss challenges and opportunities in displays and related technologies.
- To provide updates on the status of Brazil in these technologies and related manufacturing infrastructure.

Sponsors:



ACQUA BILGEM S. MARQUES ALUNA  
2011



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## ***Sponsors***

Coordenação de Aperfeiçoamento de Pessoal de Nível Superior  
(CAPES): R\$ 55k

Conselho Nacional de Desenvolvimento Científico e Tecnológico  
(CNPq): R\$ 60k

Abinfo: R\$ 20k

FACTI: R\$ 6k

Total : R\$ 400k = US 200k

# Technical Meetings to be held



- Seminars to be held at universities and technical schools in Brazil and Argentina
  - To present display technologies
  - To introduce SID and invite people to be member





Thank you!