

# ASDESE Workshop, September 27, 2002

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Workshop of the project ASDESE

Application Specific Design for ESD and Substrate Effects

This course will cover key aspects of developing and verifying simulation guided design methodologies in order to prevent undesirable electrostatic discharge (ESD)-vulnerability or substrate effects in application specific integrated circuit (ASIC) design. These methods will be applied for the different technologies, including Deep-Sub-Micron, Smart Power, Silicon-On-Insulator, and High Frequency Processes (Bipolar and SiGe).

## Location

The ASDESE Workshop is part of the ESSDERC/ESSCIRC-2002 Conference and will be in room no. 4. The conference will be held from 24 to 26 September 2002 at the Florence Conference Center, Piazza Adua 1, Florence. The Conference Center is situated near the city center.

Florence is easily reached by plane, train, or car. The airport is located nearby the city center and offers direct services from many European airports. It is also possible to reach the Pisa international airport in one hour by shuttle trains from the Florence railway station. The latter is located in the city center, in front of the Conference Center.

Details on Conference Location and Direction will be included in the Program and published on the ESSDERC web page (<http://www.essderc2002.deis.unibo.it>).

## Registration

The workshop registration fee is 80 € and has to be paid directly to the registration of ESSDERC. The package includes workshop material, coffee breaks and workshop lunch at the Conference Center.

Conference registration and hotel accommodation will be carried out jointly for ESSDERC and ESSCIRC and can be downloaded here:

<http://www.essderc2002.deis.unibo.it/registration.htm>

Conference Registration Form must be faxed to:

ESSDERC-ESSCIRC 2002 Secretariat

Attn: Mrs. Maria Teresa Tibaldi

Fax n. +39 051 652 73 58

Hotel Accommodation Form must be faxed or emailed to:

Scaramuzzi Team Girovagare Viaggi

Viale Milton n. 81 I - 50129 Firenze (Italy)

Phone: +39 055 494949 Fax: +39 055 476393

e-mail: [hotels@studioscaramuzzi.com](mailto:hotels@studioscaramuzzi.com)

## Information

Workshop Program            Wolfgang Wilkening ([Wolfgang.Wilkening@de.bosch.com](mailto:Wolfgang.Wilkening@de.bosch.com))

Location and Direction     Dieter Treytnar ([treytnar@edacentrum.de](mailto:treytnar@edacentrum.de))

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# Program

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8.00 – 9.00 *Registration and Reception*

9.00 – 9.30 **Welcome and project overview**  
W. Wilkening (Bosch)

## **Advances in ESD protection design towards CDM**

9.30 – 9.50 **CDM: Background and Motivation**  
W. Stadler (Infineon)

9.50 – 10.05 **Very fast transmission line pulsing**  
H. Gieser (FhG-IZM)

10.05 – 10.20 **Optical characterization techniques**  
E. Gornik (TU Vienna)

## **Simulation guided ESD protection design**

10.20 – 10.40 **Device simulation**  
V. de Heyn (IMEC)

10.40 – 11.00 **Circuit simulation**  
J. Willemen (Bosch)

11.00 – 11.30 *Coffee Break*

11.30 – 11.50 **Substrate effects, overview**  
J. Schloeffel (Philips)

11.50 – 12.20 **Design Flow demonstration and teststructures**  
J. Hartung (Cadence) and S. Strahle (Infineon)

12.20 – 12.50 **Minimizing coupling in 40Gbit/s amplifier**  
W. Steiner (Univ. Bochum)

12.50 – 13.00 **Concluding remarks and adjourn**  
Projectleader together with WP leaders

13.00 – 14.00 *Lunch*

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**ESSDERC-ESSCIRC 2002**  
**Firenze, Italy**  
**23-27 September 2002**

**REGISTRATION FORM**

Please, complete and fax this form to:  
 ESSDERC-ESSCIRC 2002 Secretariat  
 Attn: Mrs. Maria Teresa Tibaldi  
**Fax n. +39 051 652 73 58**

\_\_\_\_\_ Last Name First Name Middle Initial

\_\_\_\_\_ Title Affiliation

\_\_\_\_\_ Address

\_\_\_\_\_ Zip Code City Country

\_\_\_\_\_ Daytime Phone Fax

\_\_\_\_\_ e-mail

\_\_\_\_\_ Name of Accompanying Person(s) (if any)

I shall attend:  ESSDERC  ESSCIRC

**Registration Fees**

**Conference Registration Fees**

|  | Before July 26 | Before Sept. 13 | On-Site | Total   |
|--|----------------|-----------------|---------|---------|
| <input type="checkbox"/> Regular   | € 550          | € 600           | € 650   | € _____ |
| <input type="checkbox"/> Student*  | € 450          | € 500           | € 550   | € _____ |
| <input type="checkbox"/> Accompanying Person(s)                          | € 200 each     | n. _____        |         | € _____ |
| <input type="checkbox"/> Additional ESSDERC Proceeding Copy (with CDROM) | € 50 each      | n. _____        |         | € _____ |
| <input type="checkbox"/> Additional ESSCIRC Proceeding Copy (with CDROM) | € 50 each      | n. _____        |         | € _____ |

**Workshop Registration Fees**

*Monday 23 September*

|   | Before Sept. 13 | On-Site |         |
|---|-----------------|---------|---------|
| <input type="checkbox"/> <b>Electron Devices Manufactured with Organic Materials: from a Research Challenge to Opportunity for New Products</b> (one day) |                 |         |         |
| Regular   | € 150           | € 200   | € _____ |
| Student*  | € 100           | € 150   | € _____ |
| <input type="checkbox"/> <b>High Performance Data Converters</b> (one day)  |                 |         |         |
| Regular   | € 150           | € 200   | € _____ |
| Student*  | € 100           | € 150   | € _____ |

\* The student's status must be certified by a letter from his/her tutor or with a copy of the student card, to be attached to this fax.

Friday 27 September

|   |       |                                |                |
|---|-------|--------------------------------|----------------|
| <input type="checkbox"/> <b>Application Specific Design for ESD and Substrate Effects</b> (one day) |       |                                |                |
| Regular   | € 80  | € 80                           | € _____        |
| Student*  | € 80  | € 80                           | € _____        |
| <input type="checkbox"/> <b>Bio-sensors and Bio-electronics</b> (half day)                          |       |                                |                |
| Regular   | € 100 | € 150                          | € _____        |
| Student*  | € 50  | € 100                          | € _____        |
| <input type="checkbox"/> <b>Electrical Issues on SoC and SoP Design</b> (one day)                   |       |                                |                |
| Regular   | € 150 | € 200                          | € _____        |
| Student*  | € 100 | € 150                          | € _____        |
|   |       | <b>Total Registration Fees</b> | <b>€ _____</b> |

### Methods of Payment

**Credit card**     **Visa**     **Eurocard/Mastercard**

Name (as it appears on Credit Card) \_\_\_\_\_

Card number                      Exp. date   /

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Bank transfer** (free of charge for the receiver) **to:**

Cassa di Risparmio in Bologna  
CAB 02418 – ABI 06385 – SWIFT CODE CRBOIT2B BOL  
Account holder: SISDEP/ESSDERC 2002  
Account no. 13434/H

**Registration will be confirmed upon receiving the registration fee. The payment's receipt will be delivered at the registration desk with the Conference material.**

### Cancellation Policy

Cancellations can only be accepted if a written notice is sent by e-mail to the ESSDERC-ESSCIRC 2002 Secretariat, Attn: Mrs. Maria Teresa Tibaldi (mariateresa.t@inwind.it) before 30 August, 2002. A charge of 20% of the Total Registration Fees will be withheld in order to cover administration and banking costs. After August 30, no refund is possible, but a copy of the Proceedings and CDROM will be delivered after the Conference. All refunds will be processed after the Conference.

Date \_\_\_\_\_

Signature \_\_\_\_\_

