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The Joint IEEE Industry Applications Society and Power Electronics Society (IAS/PELS) Central & South Italy Chapter was founded in 1997. The two Societies are active in the areas of controls, drives, power electronic devices and converters.

At present the Chapter has about 50 members. In addition, there are always several welcomed guests being active in the area of electric drives, power electronics, and power systems. They are not members of the IEEE but members of AEIT, the Italian Association for Electrical Engineers.
As an IEEE member of the Central & South Italy Section any member is also automatically a member of the Chapter provided he/she has selected either the IAS (Soc. code 034) and/or the PELS (Soc. code 035) as one of the societies on his/her IEEE membership application form.
The Chapter Officials are in contact with the members by email.

IEEE Student Branch  Circuits and Systems Society Chapter
Activities

Professional Seminars
Distinguished Lecturers Program
Technical Visits

FEPPCON IV and V at the Aeolian Islands in 2001 and 2004
Future of Electronic Power Processing and Conversion
ETNA VALLEY

Queracom
Teleservice
Promite
NTET Group

Blue Lab
Accent
Nokia Italia
Hitec 2000
SIELTE

ST Microelectronics

Antech
Eta Beta
Itesys
Temix

IBM ITALIA

Marconi Selenia Communication
**Main Products**

Research and development of innovative materials, manufacturing of complex geometries, solutions for extreme technologies

**Established**

2001

**Location**

via G. Arcoleo 4
95030 Gravina di Catania (CT)
Hitec 2000

**Products and services**

- Thin Film Equipment
- Cleanroom
- Renewable Energies
- Leak detection
- New Materials

Established in 2000

Employees 8

Location
via G. Arcoleo 4
95030 Gravina di Catania (CT)
Central & South Italy Chapter

ELECTRO MECHANICAL SYSTEMS

Promite Systems

Established
1997

Main location
via Mongibello 89/D
Piano Tavola - Belpasso (CT)

Other location
Zona industriale, adiacente ST Catania
ST Catania Site

Scale = 1: 7,700
ST Catania Site

LAND 394,800m²
BUILDING FOOTPRINT 95,362m²
GROSS FLOOR AREA 209,900m²
CLEAN ROOMS 33,702m²
R&D 1,400m²
PERSONNEL 4,768
STMicroelectronics in Catania

- One of the most advanced centers for design and production of microelectronic devices in the world
- The site extends over 164,800 m² with 49,362 m² of covered floor area
- 21,702 m² dedicated to class 1 to class 10 clean areas
- Main site of MLD and MPG
- R&D groups:
  - AST - Advanced System Technology Group
  - CoR&D - Corporate R&D
  - CR&D - Central R&D
  - MPG - Memory Products Group
  - MLD - Micro, Linear & Discrete Group
  - CPG - Computer Peripherals Group
  - APG - Automotive Products Group
  - HPG - Home, Personal, Communication Sector
<table>
<thead>
<tr>
<th>YEAR</th>
<th>WORKING AREA</th>
<th>EMPLOYEES</th>
<th>WAFER SIZE</th>
<th>LITHOGRAPHY</th>
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<tbody>
<tr>
<td>1960</td>
<td>First Brick Laid</td>
<td></td>
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<tr>
<td>1962</td>
<td>9,500m²</td>
<td>1,528</td>
<td>1”</td>
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<td>1970</td>
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<td>1,716</td>
<td>2” / 3”</td>
<td>100μ</td>
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<td>1980</td>
<td>25,000m²</td>
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<td>4”</td>
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<td>1990</td>
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<td>2004</td>
<td>88,194m²</td>
<td>4,768</td>
<td>6” / 8”</td>
<td>0.18μ / 0.15μ</td>
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As of December 2004, Catania Site has around 4,768 employees
- 35.46% are less than 30 years old
- 36.03% have a university degree
- 57.69% have a high school diploma

In 2004, Catania Site hired 324 new employees
- 50.30% with high school diplomas in technical and scientific subjects.
- 49.70% with university degrees mainly in electronic engineering, physics, chemistry and computer studies.
Research Activity In ST Catania Site

1,200 employees involved in research activities
(750 with University degrees)

• Power discrete & ICs
• System-on-chip design
  *Microprocessors and microcontrollers*
• Communication circuits
  *Mobile chip and others*
• Nano-organic and DNA chip
• Study of system-on-chip architecture
  *3G, 4G*
• Dedicated memories
  *Smartcard, SIM, etc*
• Automotive circuits
• Computer peripheral circuits
  *Printers, disk drives*
• Standard circuits
• Technological research

Employees with University degrees hired in the last 6 years (1999-2004)

<table>
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<th>Discipline</th>
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<tr>
<td>Physics</td>
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<tr>
<td>Chemistry</td>
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<td>Computer science</td>
<td>243</td>
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<td>Others</td>
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ST Catania University Thesis
Year 2004

<table>
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<th>Level</th>
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<td>2nd Level Degrees</td>
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<td>1st Level Degrees</td>
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<td>PhD</td>
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<td>Ongoing degrees</td>
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University / Research Institutes

Knowledge and skills exchange

Suppliers

New Products

Customers
ETNA VALLEY

UNIVERSITY OF CATANIA

Queracom
Teleservice
Promite
NTET Group

Blue Lab
Accent
Nokia Italia
Hitec 2000
SiELTE

ST Microelectronics
Antech
Etta Beta
Itesys
Temix

IBM ITALIA
Marconi Selenia Communication

CePTIT