



The EU funded program on creation of a green electronics platform between Europe-and China

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Europe - China Cooperation in Green Electronics Production Research (EC-GEPRO)

EC-GEPRO



- Budget € 904 314
- European Union funding € 500 000 from:
 - 6th Framework Programme for R&D, theme:
 - Nanotechnologies and nano-sciences, knowledge-based multifunctional materials and new production processes and devices
- Additional Support:
 - RCN
 - BILAT
 - EU FP7 profiling
 - Foundation of Natural Sciences of China
- Goal: Improve Europe-China collaboration on Green electronics production research



Chalmers University of Technology

EC-GEPRO



Dept. of Microtechnology and Nanoscience



CHALMERS

Western Norway Research Institute

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Western Norway Research Institute cont.

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Western Norway Research Institute cont.

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Shanghai University



上海大学中瑞联合微系统集成技术中心
Sino-Swedish Microsystem Integration Technology
Center



Tele and Radio Research Institute Warsaw

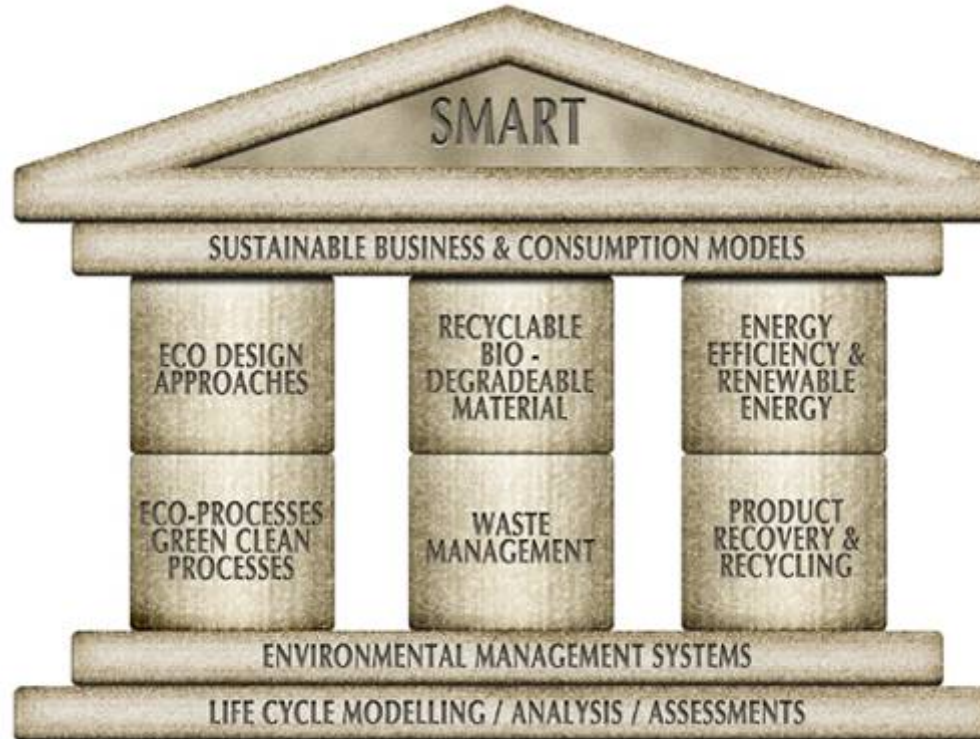
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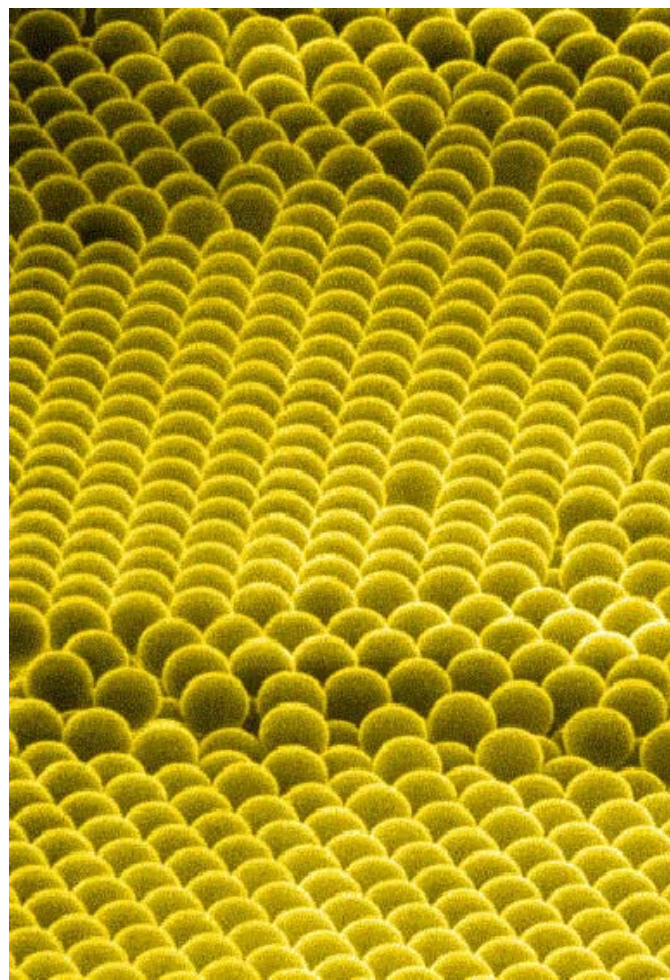
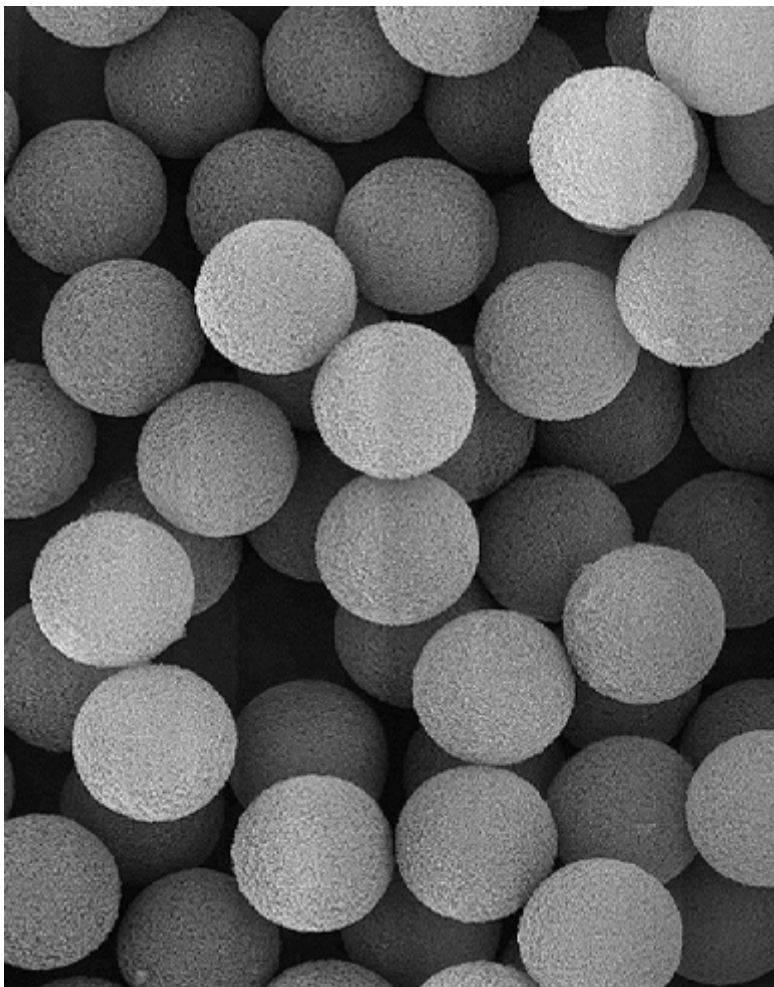


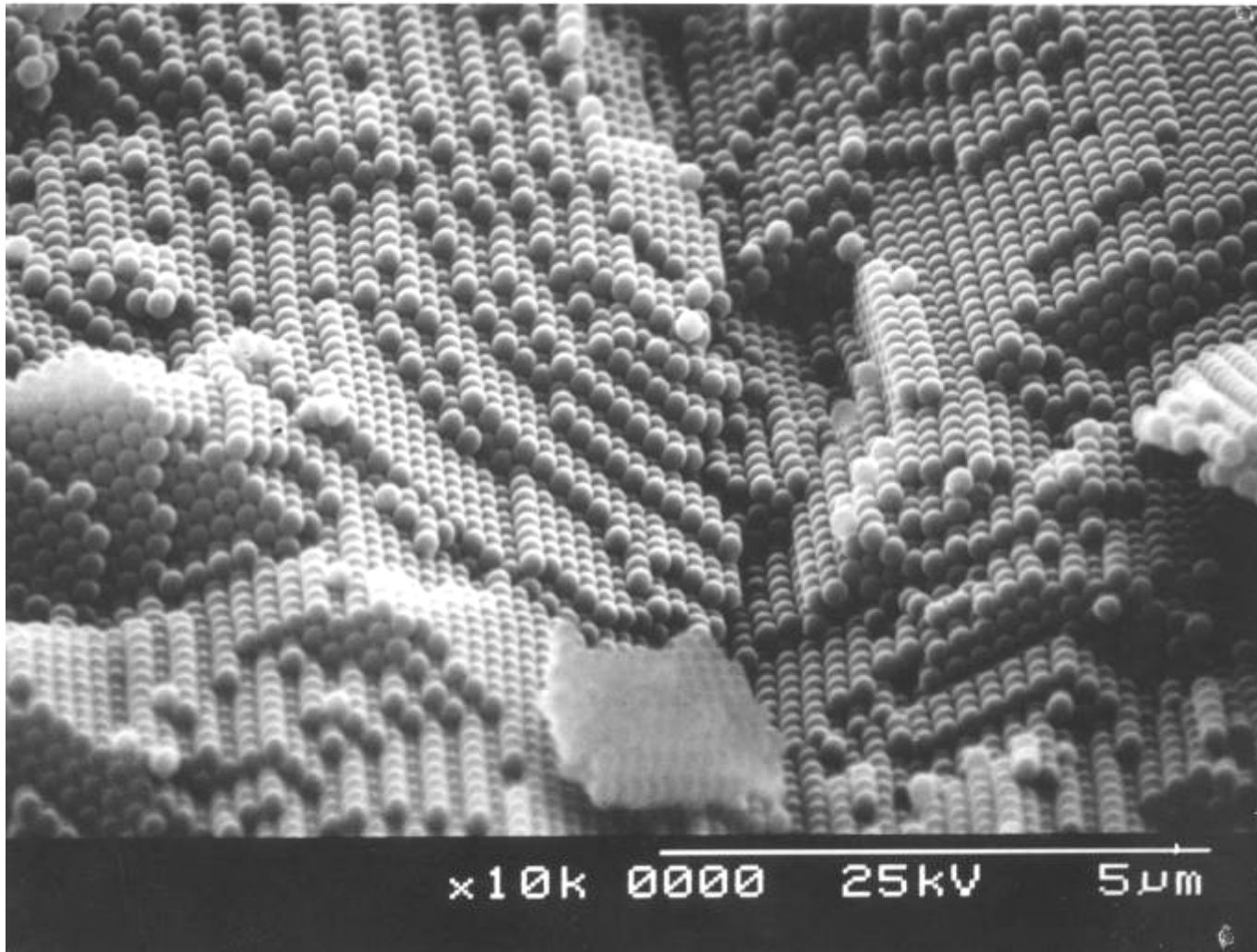
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- Wolfson School of Mechanical and Manufacturing Engineering
- Centre for **Sustainable MA**nufacturing and **Reuse/Recycling** Technologies (SMART)





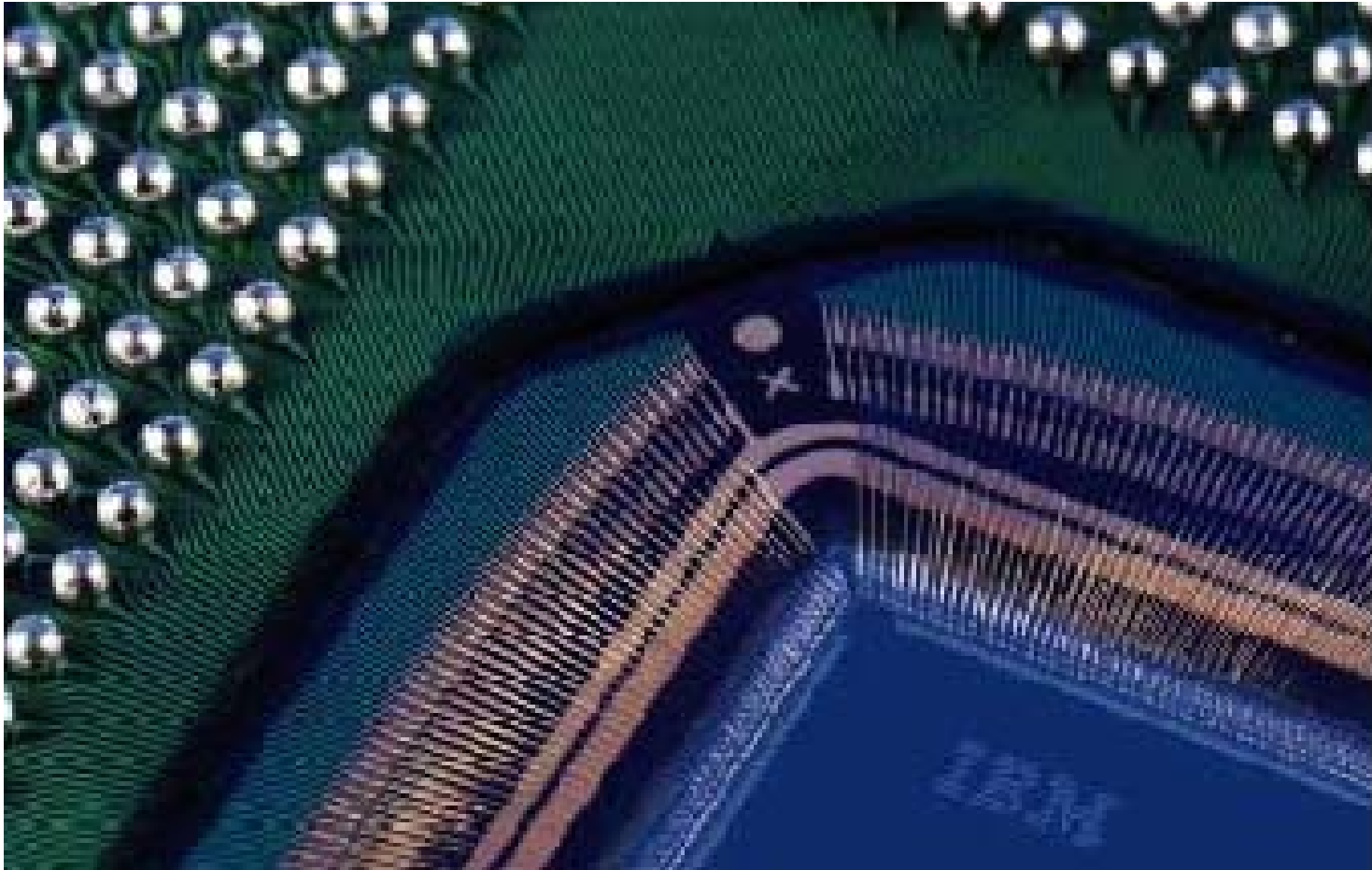




- <http://www.conpart.no/index.php?page=ourbusiness>

Ball Grid Arrays

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Research Areas



- Advance Green electronics design, production and products
- Optimizing the life-cycle properties of electronics products
- Novel materials and technologies for microelectronics integration

European-Chinese Research Teams

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- Green electronics design
 - incorporate life-cycle environmental aspects into the design of electronic products and production processes
- Green electronics assembly
 - processes connected to assembling electronics components
 - life-cycle environmental impacts of materials being used
 - substrate interconnects
 - components
 - process equipment used in electronics assembling
- Green electronics materials
 - lead-free solder pastes, BGA
 - halogen-free substrates
 - substitution of non-recyclable thermosetting polymer based composites with recyclable materials

International Conferences

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- Organising two international conferences on green electronics
- To identify research needs and develop concrete research initiatives in the area of Green electronics
- Participation of:
 - actors in all life cycle stages of electronics:
 - design and manufacture
 - use
 - final disposal
 - a variety of sectors:
 - government
 - industry
 - research institutes/universities
- Evaluation of the conferences regarding:
 - Effect on improving Europe-China collaboration
 - Identifying research needs

Sino-European Exchange Programme

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- For students and researchers at host universities in Europe and China
- Coordinated by the Green electronics Centre of Excellence in Shanghai
- Necessary funding schemes will be developed during the 2-year project period



Thank you!