

Mobility and Multi-Cultural Working Experiences, Key Elements to Reach the Desired Academic Job

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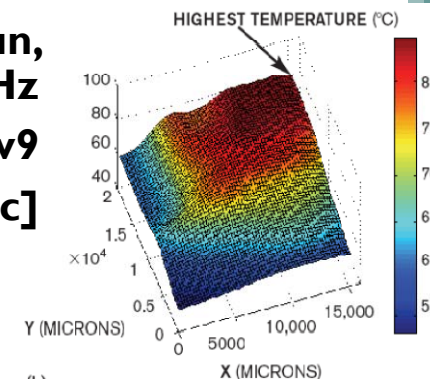
Education and Background

- B.Sc./M.Sc. in Computing Systems and Engineering (CSE), Complutense Univ. Madrid (UCM), Spain, 1999 and 2001.
- Ph.D. in CSEE, IMEC (Belgium), Visiting PhD-Stanford (USA), 2005.
 - Prof. Francky Catthoor and Prof. Hugo De Man, Design Tech. Division
- Professor, Dept. of CSE, at UCM (Spain), 2007.
- Professor and Director, Embedded Systems Lab (ESL), Institute EE, Ecole Polytechnique Fédérale Lausanne (EPFL), Switzerland, 2008.

Mobility in Research Required?

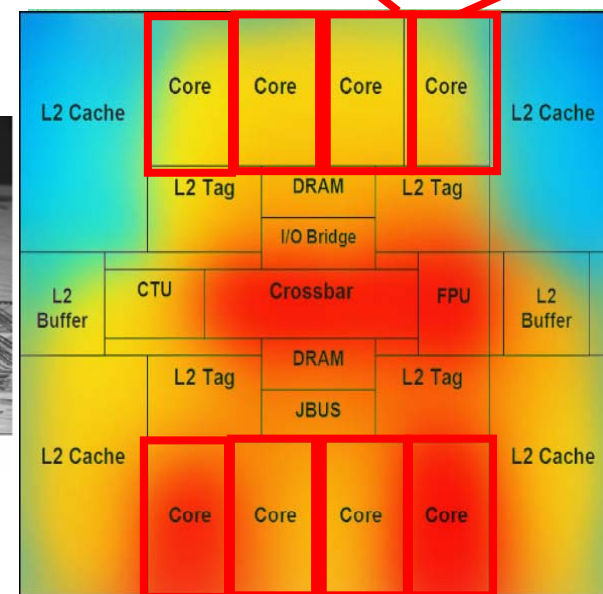
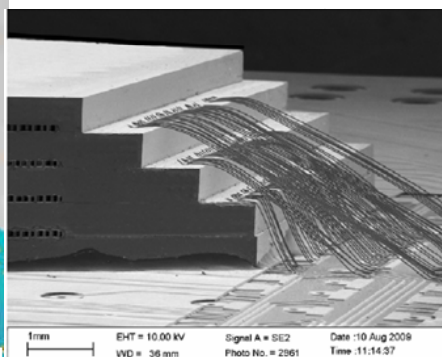
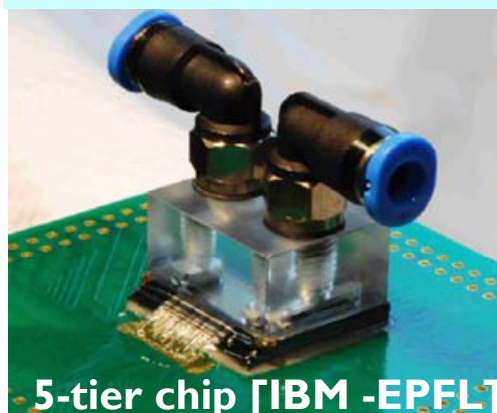
- Why do I need to move to be “successful”?
 - Tenure: Impact, one group cannot solve a complex problem today, **learn** with experts!
- E.g.: Thermal-aware design 2D/3D multi-processor system-on-chip (MPSoCs)

[Sun,
1.8 GHz
Sparc v9
Microproc]



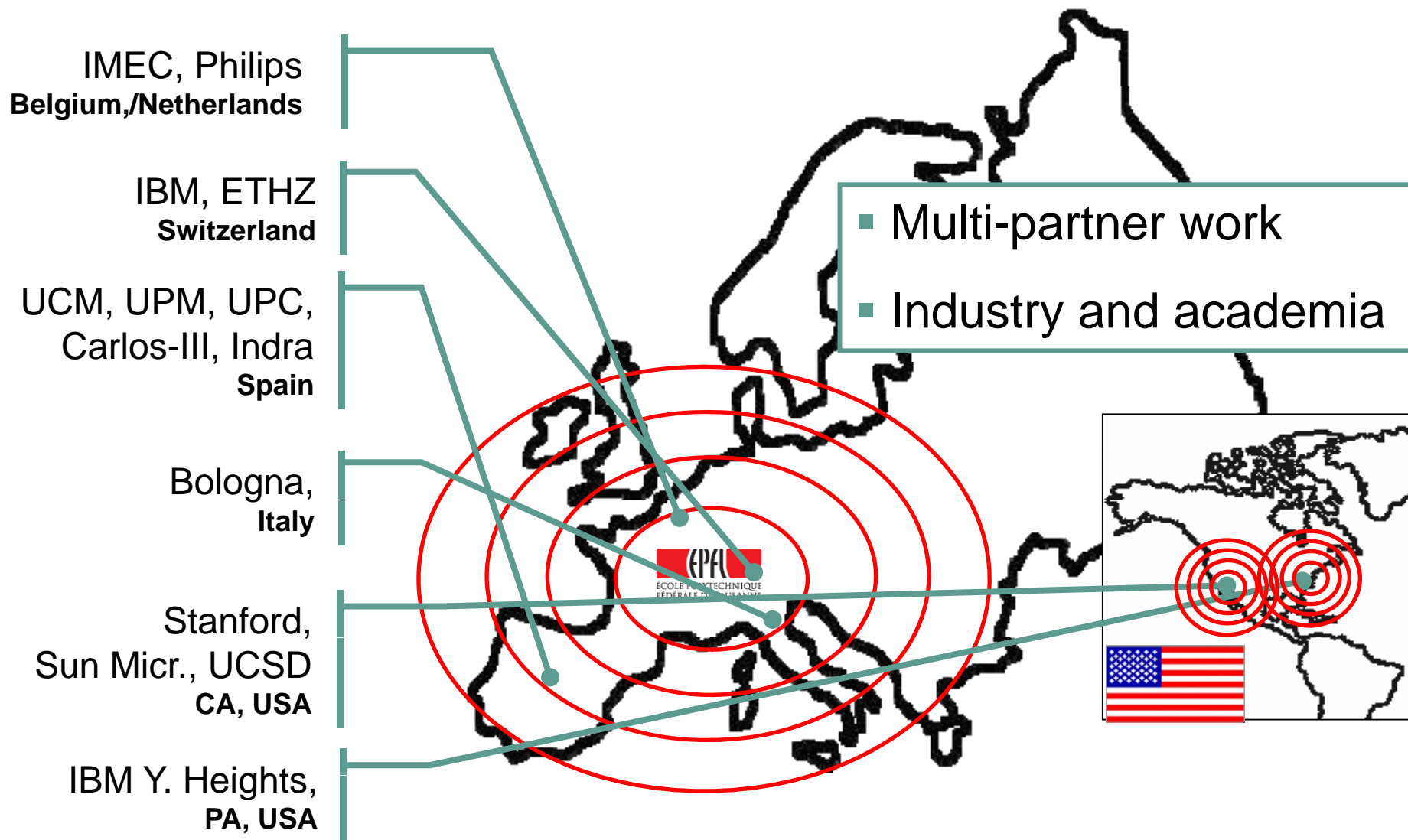
Who can help me to understand all these parts?

[Courtesy:
IBM 3D
integration
technology
group]



- Partners: IBM, Sun, Stanford, UCM, Philips-IMEC, Freescale-Bologna, ETHZ

Search Partners Wherever Needed!

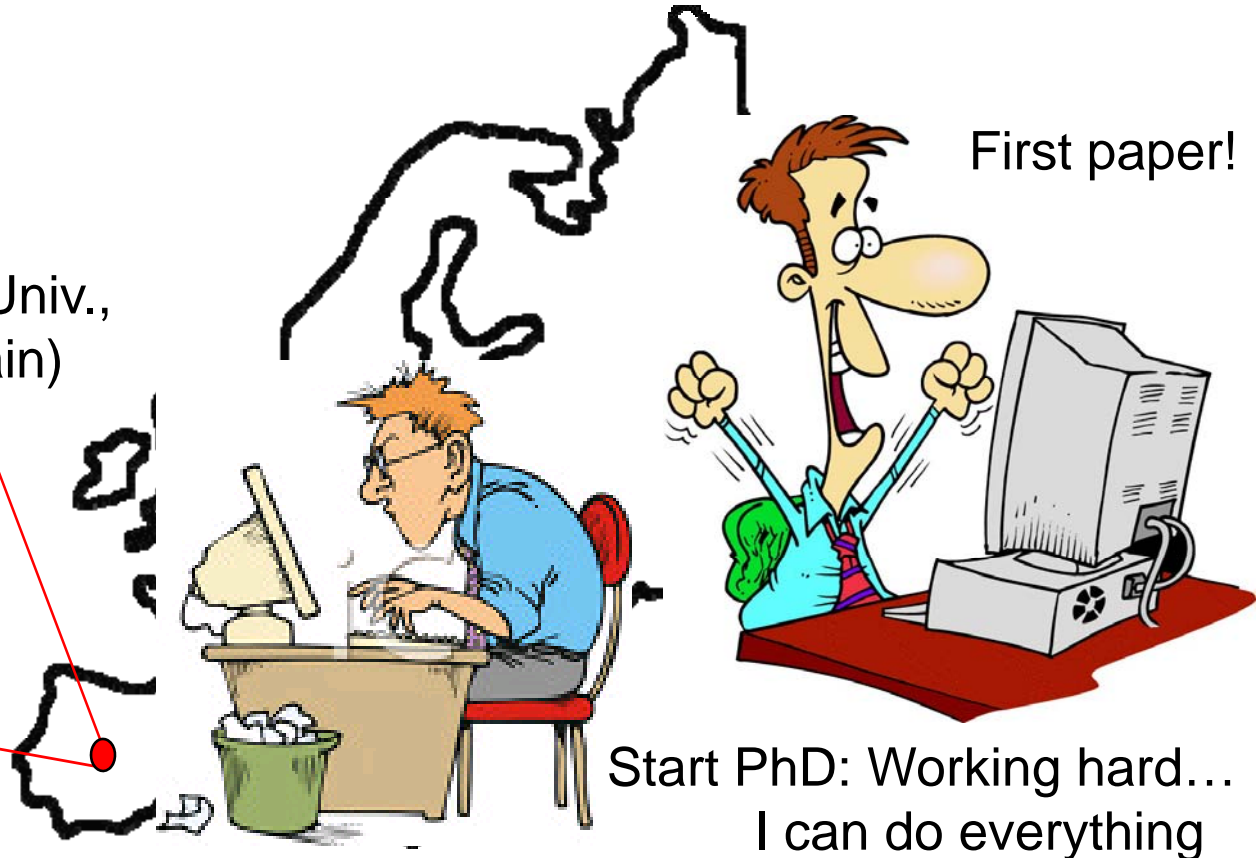


When Shall I Start to Move?

- As soon as possible: PhD level at the very latest!
 - Educate to work (effectively) in multi-cultural research teams:
“The whole is more than the sum of its parts” [Aristotle]



Complutense Univ.,
Madrid (Spain)



What About Larger Problems?



Work in a PhD students team! (different levels of experience: new PhD students, senior ones, etc.)

Working in a Team (Abroad): Multi-Cultural Experience

- Each country (culture) has different skills and ways to work
 - Learn to work with all of them: accept different views and coordination



IMEC, Philips
Leuven (Belgium)



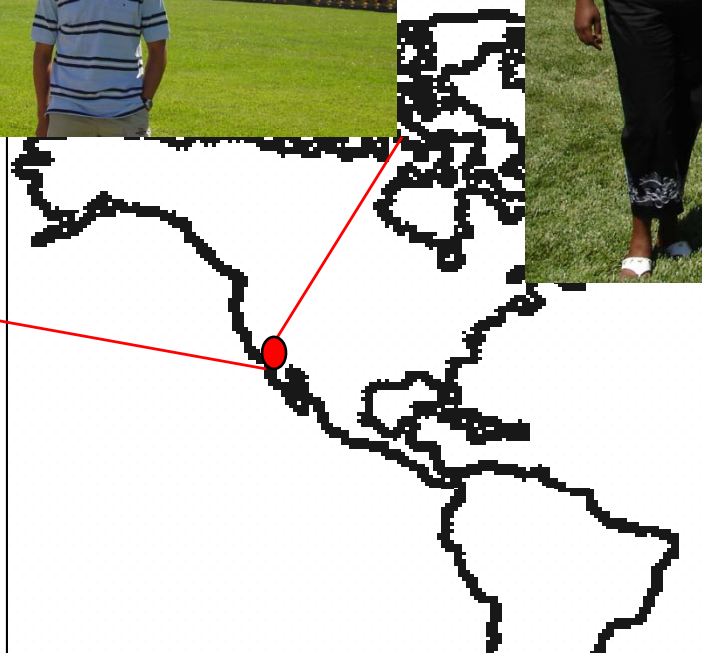
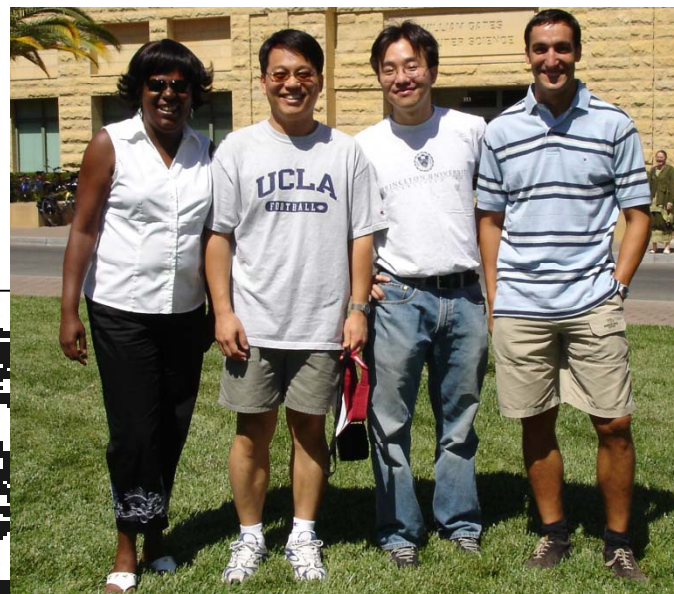
– Indian, Spanish, Belgian, Dutch,
British, Polish, Italian, Portuguese,
Moroccan,...

Going Further Away: Getting With The Best Technical Groups

- Language and presentation as important as technical skills!
 - Master English speaking/writing (courses on non-technical aspects)



Stanford Univ.
CA (USA)



Applying What Was Learned: As Faculty Moving to Another Country



>60% of faculty not Swiss
53% of foreign students!

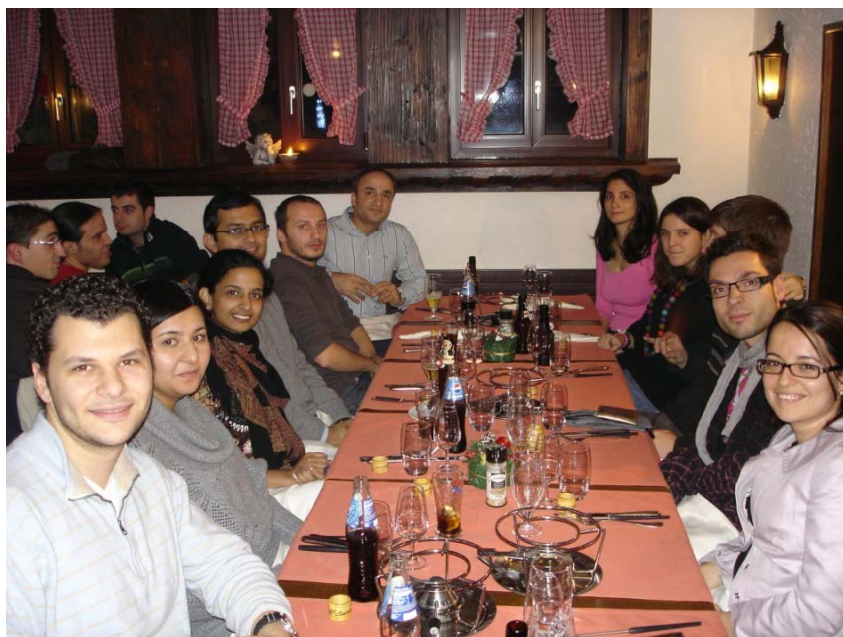
EPF Lausanne, CH

Applying What Was Learned: Embedded Systems Lab (ESL)

- 21 members (MSc, PhD, Post-Docs...)
 - 14 countries: Afghanistan, Argentina, Bulgaria, Colombia, Egypt, France, Germany, India, Iran, Italy, Spain, Switzerland, Tunisia, and Turkey.



<http://esl.epfl.ch>



Do's and Do Not in Multi-Cultural Learning and Developing a Team

- Once bitten, twice shy
 - do not impose any opinion without reasoning, research has angles!
 - do not rewrite yourself papers if you want somebody to learn
- A chain is no stronger than its weakest link
 - recognize the work of all collaborators, everybody counts!
- Nothing ventured, nothing gained
 - choose the right collaborators, do not impose tight rules
- A coward dies a thousand times before his death. The valiant never taste of death but once.
 - Learning multiple cultures requires time (and risks for adaptation), but brings great chances of success!

Thank You



QUESTIONS ?