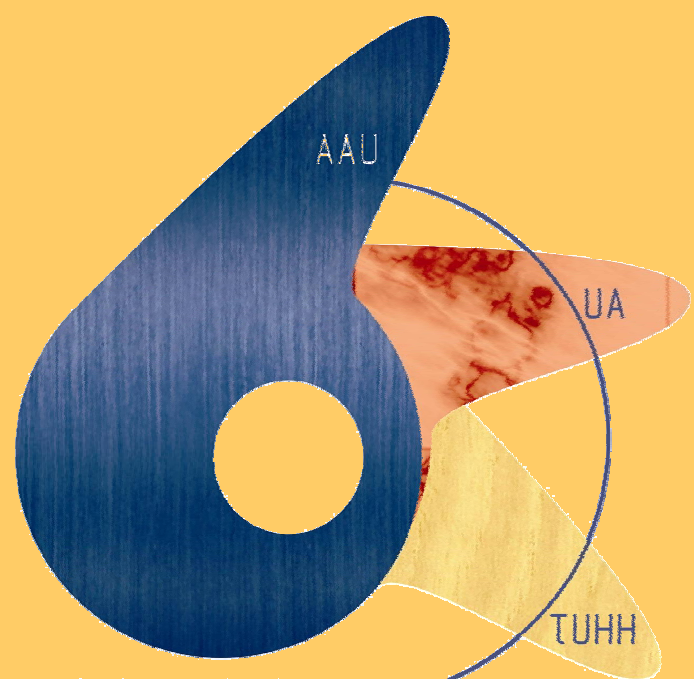


# EMMS YEARBOOK 2004-2006



EMMS

European Master in Materials Science



Education and Culture  
**Erasmus Mundus**

**JUNE, 2006**

## **PREFACE**

We, the students of the EMMS first class, are about to finish our course. Two years has already passed since we arrived at our home universities with the aim of obtaining our master degree. Now, we are very close to achieve this goal.

During these two years, a lot of experiences and moments worth of remembering took place. Among these are our travels, our dinners, and our gatherings. All of them make our course not only an interesting academic experience, but also a personal one.

The aim of this yearbook is to recollect the important moments and experiences that the EMMS students went through as a group. We hope that in the future, when you look at it, you will enjoy remembering places, people, professors, and all the nice experiences that we shared during these two years. Furthermore, this yearbook aims to start a contact network for the EMMS Alumni in order to keep in touch among us and with the future classes of EMMS students.

Finally, we would like to say a farewell in the different languages of the EMMS Students and the universities involved in the programme, hoping that we will see each other soon.

### *English*

Good bye, until the next time.

### *Danish*

Farvel, vi ser os.

### *German*

Aufwiedersehen, bis bald.

### *Portuguese*

Adeus, ate a próxima.

### *Chinese*

再见!后会有期!

### *Igbo*

Ka odiwa, ruo mgbe ozo

### *Indonesian*

Selamat tinggal, sampai jumpa.

### *Russian*

До новых встреч!

### *Spanish*

Adiós, hasta la próxima.

EMMSSA 2004-2006

## **EMMSSA**

Ricardo Chavez

Sonia Pinho

Orley Ferri

Adhitya Trenggono

Kingsley Iwu

Ilya Peshekhodov

Nataliya Kalashnik

## **ACKNOWLEDGEMENTS**

Special thanks to Erasmus Mundus for its financial support during these two years.

Thanks to all the students who contributed sending pictures and comments to produce this yearbook.

Thanks to all the administrative staff at the AAU, TUHH, and UA that help us during these two years, making possible the success of this master course.

Thanks to all our professors at the AAU, TUHH, and UA for all their teaching and support.

Thanks to Mr. Raul Chavez for helping in the edition of this yearbook.

Thanks to Mr. Rodrigo Pacher Fernandes for his help and suggestions during the editing process.

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# ***UNIVERSITY OF AVEIRO***



**Universidade  
de Aveiro**



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Bachelor: Material Engineering, Bandung Institute of Technology, Indonesia (1997-2002).

Master: Universidade de Aveiro: Nov 2004- April 2006.  
Technische Universitat Hamburg-Harburg: May-Sept 2006.

Master thesis: 1. Departamento de Quimica, Universidade de Aveiro, Aveiro-Portugal: "In situ Polymerization grafting from method of Poly (meth) Acrylates from the surfaces of Double-walled Carbon Nanotubes via Normal ATRP", Nov 2005-April 2006.

2. Polymer Composite Laboratory, TUHH, Hamburg-Germany: "Mechanical and Thermal Behaviour of Double-walled Carbon Nanotubes/Poly (meth) Acrylates Nanocomposites", May-Sept 2006.

Joining in European Master in Materials Science (EMMS) program will give you valuable and unforgettable experiences, in science, technology and culture that you could find inside and outside the class. I am sure you will enjoy your study in two or three universities where it is your chance to learn from different people and institution. Thanks to all the professors, technicians, and colleagues for their hospitality and friendship. I hope we still get in touch in the future.

## **JIE GAO**

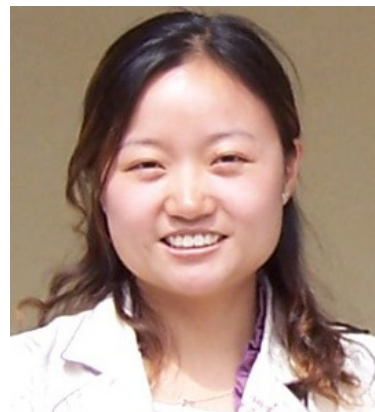
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University of Science and Technology, Beijing (USTB),  
2002



Master thesis topic: Barium Strontium Titanate(BST) Thin Films Prepared by a  
Modified Sol-Gel Processing at a Lower Annealing Temperature for  
Microelectric Applications

### **Message:**

Studies and the life in the EMMS partner universities are significant, meaningful, unforgettable and attractive experience in my life. It is so lucky to be one member of EMMS students.



## **KINGSLEY ODINAKA IWU**

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Bachelor degree: Chemistry (Industrial chemistry  
option)

Master thesis topic: Novel luminescent materials based  
on lanthanide complexes and AO<sub>2</sub> nano-particles (A=  
Si, Ti).



### **Message:**

EMMS has been a rewarding experience for me, filled with moments of anxiety and exhilaration. It afforded me the opportunity to interact with people from various ends of the globe, there is no doubt that I will be leaving with a better and fairer appreciation of the dynamics of the so called global village. I consider it a privilege to be among the pioneer set, and do hope that the background provided by the programme will be a veritable platform for my reaching out to greater heights in the future. Many thanks to the European Commission for the Erasmus Mundus vision, a vision on which EMMS and everyone involved are hitching a memorable ride.

## **SONIA LUZIA CLARO DE PINHO**

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Birthday: July 22.

Diploma degree: Physics and Chemistry  
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Master thesis topic: Experimental characterization and ab-initio modelling of a Si (111) substrate and the growth of a thin film of Ag on this substrate.



EMMS is not only an educational programme, but an extraordinary experience full of intellectual and sentimental experience, just like life itself. Overcoming the good and bad moments and learning from them was its major challenge. The interaction with new people and new social behaviours gave me a new perspective of my life within the world. The opportunity of getting in touch with the different areas of expertise in the material sciences that each university had to offer was one in a life time opportunity.

I will like to thank everyone that helped me during these two whole years, a special thanks to the European Commission for the Erasmus Mundus that made this possible.

## ***GROUP PICTURES***





















# ***HAMBURG UNIVERSITY OF TECHNOLOGY***

# **TUHH**

*Technische Universität Hamburg-Harburg*



## **ILYA PESHEKHODOV**

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Birthday: May 05, 1982.

Bachelor degree: Materials Science (June 2002, St. Petersburg, Russia)

Diploma: Metallurgical Engineer (February 2004, St. Petersburg, Russia)



Master thesis topic: Application of Virtual Crack Closure Technique to Crack Development Modelling in Thin Resistor Films

Two years flew by very fast but will definitely stay vividly in my memory. The programme organized between different universities in different countries by definition was meant to be extraordinary. And it did prove to be so. The idea of students' mobility placed in the centre of the programme worked out, even though it met a lot of scepticism among the students in the beginning. Since this book is mainly meant for the next generations, I dare to give here a couple of small hints from my experience and will be grateful if they are found to be useful.

Being a member of the Joint Master Programme, don't hesitate changing your residence however demanding or daunting the task seems to be in the beginning. A new milieu will dramatically widen your outlook as we learn things in comparison. All universities have their own educational styles; a mixture strengthens your degree. Most students from our generation enjoyed the changes. Apart from that, this is actually how we learned each other being separated in the first semester. Shortly, use at most this unique opportunity conventional master's programmes do not offer!

Once in a new country, learn its language from the very first day! And don't limit yourself only to mandatory courses at the universities. Go further and take on more activities aimed at new language proficiency. Enrol for an additional course, find a partner for a language exchange (you're a native speaker of your mother tongue - the language some foreigners may be interested in). Sharing my experience, I can say that even though I spent more than a year in Germany, now, in my last semester, I am learning most about the country. I am noticing more things that interest me, more opportunities for my future life after I started to better understand the language. Again, it is about using opportunities offered by the joint master's degree.

For us, it was a special responsibility to be the ones from the first generation. But this responsibility arose from students themselves rather than it was imposed from the existing standards. The standards simply didn't exist when the programme started, though expectations were high to keep us motivated. The warm personal relations among the students and the programme coordinators made this motivation even stronger exciting a lot of enthusiasm for everything we did during the course. This brought both high personal results for students and mutual achievements for the programme development. We dared to set the standards for the EMMS, the standards which we cannot judge objectively by ourselves but which, we hope, will be accepted by new generations and considered as a starting point for further development.

As it is well-known, motivation and enthusiasm always lead to success. I wish the new students to feel motivated and enthusiastic about their studies and life in Europe. Enjoy your participation in the EMMS and take the most from it preparing yourself for the next major move in your life!

Finally, I would like to thank the European Commission and all the universities involved in the programme for giving us a great opportunity in our lives.

## **ORLEY MILAGRES FERRI**

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Birthday: April 22.

Bachelor degree: Mechanical Engineering with specialization in Engineering of Materials (October 2004, University of Santa Catarina, Brasil.)



Master thesis topic: Effect of periodic overloads on fatigue crack propagation in Ti-6Al-4V

During these two years I had the opportunity to know many people, not only my fellows from Joint European Master in Material Science. I would like to thank you, my friends, for your help and attention during good and difficult moments. Now, thinking about the experience that I had during the program, I would like to say few words to the new students. Enjoy the time that you are in the program, try learn the culture of these 3 different countries that are partner in our program because the time pass really fast. Examinations, project work and master thesis were fundamental parts of the professional knowledge development. However, the contact with other cultures from different parts of the world, the life in a European country and the social activities were comparable or even more important for the personal development. Since, all of us are trying to do science I would like to share a sentence with my scientist colleagues:

“Science must begin with myths and end with the criticism of myths”.

Sir Karl Popper

## ***RICARDO CHAVEZ***

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Birthday: March 18, 1981.

Bachelor degree: Polymer  
Chemistry



Master thesis topic: Development of PA12 nanocomposites based on  
functionalized CNFs and CNTs

To study the EMMS was for me one of the most important milestones in my life. It was not only an interesting academic experience, but also a chance to grow up as person.

From the academic point of view, it allows me to take advantage of the resources of the three partner universities. Each university has a different lecture offer and research lines that combined produce a very broad opportunity spectrum. For example, the TUHH has strong research groups in Composite and Metallic Materials; whilst the UA and AAU have strong ones in Ceramics and Materials Modelling, respectively. Therefore, I think that after visiting the three universities, I got a deep technical knowledge in the different areas of Materials Science. On the other hand, the EMMS offered me the chance to participate in extra academic activities like the organization of scientific events, which complement my formation as researcher.

From the personal point of view, the EMMS gave me the chance to work and interact with people from different countries and cultures. For me, it was

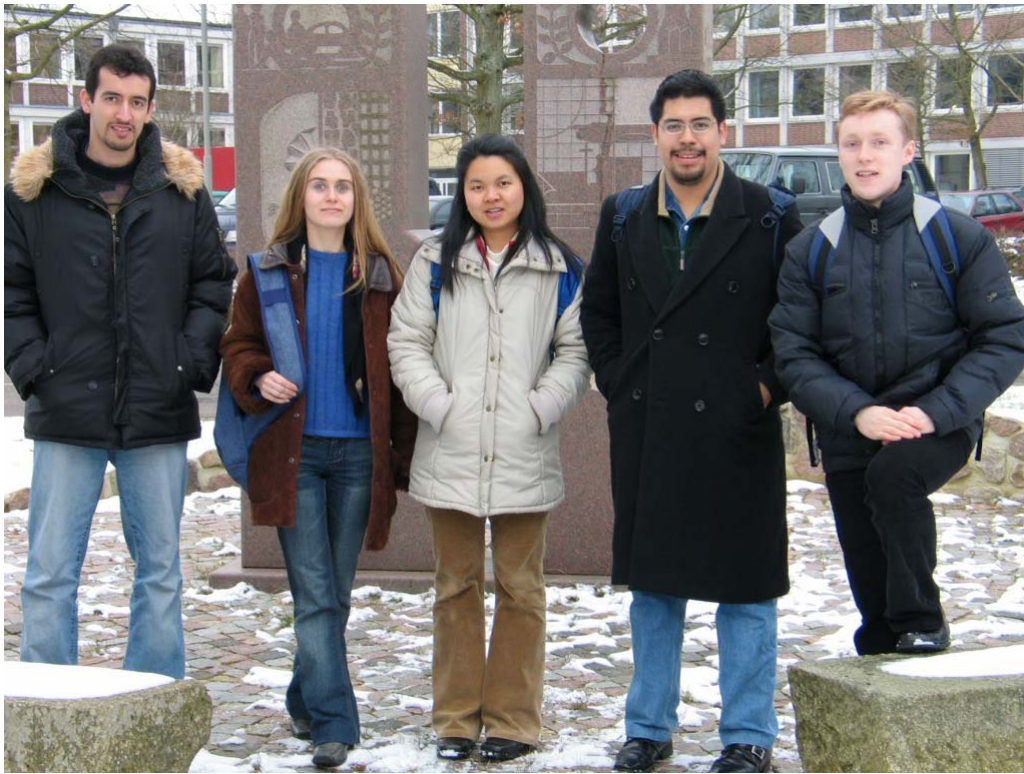
really impressive to realize how much the different cultures have in common. I never expected that somebody who lives in the other side of the world has the same interests as me. Other aspect that deeply impresses me was Europe's cultural diversity and richness. This motivated me to learn the languages of the partner universities' countries in order to interact better with the people there.

Finally, I would like to thank to my parents for their support during this two years. Special thanks to all my classmates for their friendship and support. It was really nice to share with them this time, and I hope that soon we can meet us again to remember our experiences as EMMS students. I would also like to thank to all my professors, administrative staff at the three partner universities, and Erasmus Mundus staff that made the first EMMS edition possible.



## ***GROUP PICTURES***































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2004-2008



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