

PROJECT FINAL REPORT

Grant Agreement number: **204953**

Project acronym: **RP-DEMATEN**

Project title: **Reinforcement of Research Potential of the Department of Materials Engineering in the Field of Processing and Characterization of Nanostructured Materials**

Funding Scheme: **Coordination and Support Actions (CSA)**

Date of latest version of Annex I against which the assessment will be made:
07/03/2008

Periodic report: **1st ☒ 2nd ☒ 3rd ☒ 4th ☐**

Period covered: **from 01/05/2008 to 30/04/2011**

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² The home page of the website should contain the generic European flag and the FP7 logo which are available in electronic format at the Europa website (logo of the European flag: http://europa.eu/abc/symbols/emblem/index_en.htm ; logo of the 7th FP: http://ec.europa.eu/research/fp7/index_en.cfm?pg=logos). The area of activity of the project should also be mentioned.

Declaration by the scientific representative of the project coordinator¹

I, as scientific representative of the coordinator¹ of this project and in line with the obligations as stated in Article II.2.3 of the Grant Agreement declare that:

- The attached periodic report represents an accurate description of the work carried out in this project for this reporting period;
- The project (tick as appropriate):
 - ☐ has fully achieved its objectives and technical goals for the period;
 - ☒ has achieved most of its objectives and technical goals for the period with relatively minor deviations³;
 - ☐ has failed to achieve critical objectives and/or is not at all on schedule⁴.
- The public website is up to date, if applicable.
- To my best knowledge, the financial statements which are being submitted as part of this report are in line with the actual work carried out and are consistent with the report on the resources used for the project (section 3.6) and if applicable with the certificate on financial statement.
- All beneficiaries, in particular non-profit public bodies, secondary and higher education establishments, research organisations and SMEs, have declared to have verified their legal status. Any changes have been reported under section 5 (Project Management) in accordance with Article II.3.f of the Grant Agreement.

Name of scientific representative of the Coordinator¹: Prof. Dr. Vladimir V. Srdić

Date:31/ 07/ 2011

Signature of scientific representative of the Coordinator¹: 

³ If either of these boxes is ticked, the report should reflect these and any remedial actions taken.

⁴ If either of these boxes is ticked, the report should reflect these and any remedial actions taken.

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1. Publishable summary



RP-DEMATEN – second year report **Reporting period: 01. 05. 2008. – 30. 04. 2011.**

Contractor:

FTUNS – Faculty of Technology, University of Novi Sad, Novi Sad, Serbia

Project coordinator:

Prof. Vladimir V. Srdić, Ph.D. - srdicvv@uns.ac.rs

RP-DEMATEN is an acronym for the project titled: “Reinforcement of Research Potential of the Department of Materials Engineering in the Field of Processing and Characterization of Nanostructured Materials”. The objectives of the proposed Project are reinforcement of research potential of the DEMATEN at the FTUNS and strengthening partnerships among centers of excellence established in the EU’s convergence region, the Member States and the Western Balkan Countries (WBC).

The major RP-DEMATEN objectives are to:

- Hire new young and experienced researchers;
- Improve networking and exchange know-how and experience by exchange of senior researchers;
- Provide training for our young researchers;
- Develop, launch and support information system through web site offering access to thematic and general information in the field of nanomaterials and nanotechnology;
- Disseminate written information in form of flyers, pamphlets etc.
- Upgrade and renew equipment necessary for successful development of nanomaterials and nanotechnology;
- Organize Conference, Workshops, and Training schools.

The RP-DEMATEN was very important for the reinforcement of research potential of the DEMATEN at the FTUNS and strengthening partnerships among the centers of excellence from the Europe. Even though we were late with beginning of the Project (the Grant Agreement was finally signed on August 5, 2008 by the European Commission while the official starting date of the Project was May 1, 2008) we have realised almost all of the proposed activities and used the budget very efficiently.

During the three years of the RP-DEMATEN project, according to the **WP1 Mobility and Training** Work Plan, the following trainings were organized:

- 2 six-month trainings:
 - I. Stijepović from FTUNS visited UDE
 - S. Ognjanović / B.Mojić / E.Csehova / M.Kachlik visited UDE
- 7 two-month trainings:

- J. Pavličević/I.Ristić from FTUNS visited IMCASC
- O. Bera from FTUNS visited DCPBUT
- M. Maletin from FTUNS visited IMSNCSR
- J. Pavličević from FTUNS visited IMCASC
- M. Kašiarova / P. Tatarko from IMRSAS visited IMSNCSR
- B. Mojić / V. Simendić / N. Vukić from FTUNS visited IMRSAS
- M. Kachlik from DCPBUT visited UDE
- 12 one-month trainings:
 - D. Avramov from FTUNS visited DCPBUT
 - O. Bera from FTUNS visited DCPBUT
 - A. Duszová from IMRSAS visited IMCASC
 - V. Pouchly from DCPBUT visited FTUNS
 - E. Bartoničková / M. Kachlik from DCPBUT visited IMSNCSR
 - V. Puchy from IMRSAS visited DCPBUT
 - S. Ognjanović from FTUNS visited UDE
 - I. Ristić from FTUNS visited IMCASC
 - D. Drdlik from DCPBUT visited IMRSAS
 - A. Duszová from IMRSAS visited UDE
 - B. Mojić from FTUNS visited IMSNCSR
 - V. Simendić / N. Vukić from FTUNS visited IMRSAS

In addition, 33 visits for senior researcher were organized:

- 2 one-month visits
 - Dr. M.Špírková from IMCASC visited FTUNS (the second visit)
 - P. Tatarko from IMRSAS visited FTUNS
- 2 two-week visits
 - Dr. K. Častkova / Prof. K. Maca / Prof. M. Trunec from DCPBUT visited FTUNS
 - E. Csehova from IMRSAS visited FTUNS
- 7 one-week visits:
 - Prof. J. Budinski-Simendić from FTUNS visited IMCASC
 - Doc. B. Pilić from FTUNS visited DCPBUT
 - Prof. Lj. Nikolić from FTUNS visited DCPBUT
 - Prof. V. Srdić from FTUNS visited UDE
 - Prof. J. Budinski Simendić from FTUNS visited IMCASC
 - Prof. V. Srdić from FTUNS visited IMSNCSR
 - Prof. J. Budinski Simendić from FTUNS visited IMRSAS
- 22 one-week visits:
 - Prof. K. Maca from DCPBUT visited IMCASC
 - Prof. M. Trunec from DCPBUT visited FTUNS
 - Dr. E. Moshopoulou from IMSNCSR visited FTUNS
 - Dr. K. Giannakopoulos from IMSNCSR visited FTUNS
 - Dr. M. Špírková from IMCASC visited FTUNS
 - Dr. V. Jan from DCPBUT visited IMRSAS
 - R. Djenadić from UDE visited FTUNS
 - Dr. M. Špírková from IMCASC visited IMRSAS
 - Dr. M. Špírková from IMCASC visited DCPBUT
 - Prof. K. Maca from DCPBUT visited FTUNS
 - Dr. F. Lofaj from IMRSAS visited IMSNCSR
 - Dr. M. Čubová Urbanova from IMCASC visited FTUNS
 - Dr. J. Dusza from IMRSAS visited UDE

- Dr. P. Hvizdos from IMRSAS visited FTUNS
- Dr. K. Giannakopoulos from IMSNCSR visited UDE
- Dr. K. Giannakopoulos from IMSNCSR visited DCPBUT
- Dr. M. Špírková from IMCASCAR visited IMSNCSR
- Dr. J. Dusza from IMRSAS visited DCPBUT
- Dr. M. Kašiarova from IMRSAS visited FTUNS
- A. Duszova from IMRSAS visited IMCASCAR
- Prof. K. Maca from DCPBUT visited IMSNCSR
- Prof. K. Maca/ Prof. M. Trunec from DCPBUT visited UDE

Thus, even though the plan for the Mobility and training was demanding only a few visits were not realised, however a few additional training/visits were done.

The most important activities of **WP 2 Dissemination of information** were designing, updating and improving the web site, preparation of two flyers and a brochure, dissemination of information about the RP-DEMATEN project on TV programme, newspapers, international conferences, meetings etc.

According to **WP 3 Strengthening of the human potential** two young scientists (Jelena Pavličević and Ivan Stijepović) were hired already in the first Project year. I. Stijepović continued his work up to the end of the Project and considerably improved himself through training in the EU centres of excellence and training at the FTUNS supervised by professors from the DEMATEN, hired experienced senior scientists and visitors. J. Pavličević finalised her Ph.D. thesis and was working up to 4th November 2010 and then left the Project due to attending UNESCO postgraduate course in Polymer Science, organised at the Institute of Macromolecular Science of Czech Academy of Science in Prague. The position was filled by a young researcher, Oskar Bera, from 1st November 2010. Experienced senior researchers from the IMCASCAR (Dr. Milena Špírková, Dr. Adam Strachota and Dr. Jiří Brus) were employed at the FTUNS for three months. In addition, at the position of experienced researcher coming back to the FTUNS instead of Mr. Ružica Djenadić two scientists were employed: i) Mr. Milan Nikolić, having Serbian citizenship (from 1st February 2010 up to the end of the Project) and ii) Dr. Konstantinos Giannakopoulos, having Greek citizenship (for 3½ months in the second and third Project year). They all strongly reinforced human potential of the FTUNS and have provided stimulative climate for creative scientific activities by training of young scientists in the field of nanomaterials and nanotechnology.

The most important activities in the RP-DEMATEN Project in **WP 4 Upgrading research capacities** were purchasing, delivering and installation of Waters Gel Permeation Chromatograph and Malvern Zetasizer Nano ZS. In addition, it is important to underline that continuous training and a lot of measurements, closely connected with current research activities at the FTUNS, were done on the newly purchased equipment.

Within **WP 5 Workshops and training schools** two training schools and three workshops were organised. The first Training school “*Microstructure and Fracture-Mechanical Properties of Nanostructured Materials*” was held from 18th to 20th March 2009 at the Institute of Materials Research, Slovak Academy of Science, Košice, Slovakia. The second Training school “*Characterisation of nanostructured materials*” was held from 3rd to 6th December 2009 at the Faculty of Technology, University of Novi Sad, Serbia. The first Workshop (the Main conference) “*Nanostructured Ceramics and Nanocomposites - Challenges and Perspectives*” was held from 3rd to 6th December 2009 at the Faculty of Technology, University of Novi Sad, Serbia. The second Workshop “*Structural and Functional Characterisation of Complex Materials*” was held from 3rd to 5th of June

2010 in Ourinopoulo, Chalkidiki, Greece. The third Workshop “*Processing of Nanostructured Ceramics and Nanocomposites*” was held from 3rd till 5th March 2011 at the Faculty of Mechanical Engineering, Brno University of Technology, Brno, Czech Republic.

2. Project objectives for the period

The Department of Materials Engineering (DEMATEN) at the Faculty of Technology, University of Novi Sad (FTUNS) represents the strongest research and education centre in the province Vojvodina in the field of ceramics and polymer materials and one of the first research centres in Serbia in which investigation of nanostructured materials has begun in early 1990's. Since then the research activities at the DEMATEN have been focused on processing and characterization of nanostructured materials - nanopowders, nanotubes, nanofilms and nanocomposites. The research team at the DEMATEN consists of relatively young and qualified researchers, having considerable international experiences. Thus, the RP-DEMATEN project will continue already initiated bilateral collaboration between researchers from the FTUNS (DEMATEN) and five centres of excellence from Europe: Nanoparticle Process Technology, Duisburg (UDE); Institute of Macromolecular Chemistry AS CR, v.v.i., Prague, (IMCASCAR); Institute of Materials Science, Athens (IMSNCSR); Institute of Materials Research, Košice (IMRSAS) and Department of Ceramics and Polymers, Brno (DCPBUT)). The collaboration had been based on cooperative research activities, exchange of scientists, joint publications of the obtained results and the European project - COST 539, COST MP0701 and COST MP0904. During the RP-DEMATEN project this collaboration was considerably strengthened which offered an excellent basis for sustainable partnership among the centres of excellence concerned and in the same time promoted closer S&T cooperation between Europe and the Western Balkan Countries (WBC). In addition, it was obvious that some centres from the Balkan region (such as the Faculty of Technology, University of East Sarajevo, Zvornik, Republic of Srpska, Bosnia and Herzegovina and the Faculty of Technology and Metallurgy, University of St. Cyril & Methodius, Skopje, FYRO Macedonia) recognised the established partnership and connected themselves to the created network, giving perspective of further integration of the Balkan region into the European Research Area and therefore the European RTD activities.

3. Work progress and achievements in RP-DEMATEN Project

3.1 WP 1 - Mobility and training

Within the frame of the RP-DEMATEN few types of trainings/visits were organized:

- six-month trainings in EU institution for young researches;
- two-month trainings in EU institutions for young researchers;
- one-month trainings in EU institutions for young researches;
- one-month study visits for experienced researchers;
- two-week study visits for experienced researchers;
- one-week study visits for experienced researchers.

On the Kick-off Meeting, held on September 23, 2008 at Faculty of Technology, University of Novi Sad, members of the Project Management Board agreed to follow the proposed plan for mobility and training of researchers (*please see the table below*).

Table 1. Timetable for Mobility & Training

Time-table	FTUNS Novi Sad	UDE Duisburg	IMCASC Prague	IMSNC Athens	IMRSAS Kosice	DCPBUT Brno
M 1-6	IMCASC-v* IMSNC-v		FTUNS-v FTUNS-2		DCPBUT-v DCPBUT-1	FTUNS-v FTUNS-2
M 7-12	UDE-v <u>DCPBUT-1</u>	DCPBUT-v DCPBUT-2	DCPBUT-v	FTUNS-2 IMRSAS-v IMRSAS-2	FTUNS-v FTUNS-2	<u>UDE-v</u>
M 13-18	IMCASC-1 IMSNC-v DCPBUT-w	FTUNS-6	FTUNS-2 IMRSAS-v IMRSAS-1	FTUNS-v	IMCASC-v	IMRSAS-v IMRSAS-1
M 19-24	<u>UDE-1</u> IMRSAS-v DCPBUT-w	IMSNC-v FTUNS-1		DCPBUT-v DCPBUT-1	<u>UDE-v</u>	IMSNC-v
M 25-30	DCPBUT-v IMRSAS-1 <u>IMSNC-w</u>	FTUNS-v FTUNS-6		FTUNS-1 IMCASC-v	DCPBUT-1	FTUNS-1
M 31-36	<u>IMSNC-1</u> IMCASC-v IMRSAS-w	IMRSAS-v IMRSAS-1	FTUNS-1		FTUNS-1	

* acronym of the participant and type of visit (v – one-week visit, w-two-week visit, 1 – one-month visit, 2 – two-month visit, 6 – six-month visit)

During three years of the RP-DEMATEN project most of the planned trainings/visits were finalised. Thus, only a few of the proposed visits (*underlined and indicated in red in the table above*) were not realised, however, a few additional were done:

- O. Bera from FTUNS had one-month training at DCPBUT (in the second year)
- Prof. Lj. Nikolić from FTUNS visited DCPBUT (in the first year)
- Prof. J. Budinski Simendić from FTUNS visited IMCASC for one week (in the third year)
- Dr. M. Špírková from IMCASC visited DCPBUT for one week (in the second year)
- Dr. M. Kašiarova from IMRSAS visited FTUNS for one week (in the third year)

However, it has to be mentioned that: i) a few additional training/visits were also done and ii) training of a young researcher from the DCPBUT was realised at the FTUNS instead at the IMRSAS.

During three years of the RP-DEMATEN project, according to the WP1 Mobility and Training Work Plan, the following trainings were organized:

- 2 six-month trainings:
 - I. Stijepović from FTUNS visited UDE
 - S. Ognjanović / B. Mojić / E. Csehova / M. Kachlik visited UDE
- 7 two-month trainings:
 - J. Pavličević/I. Ristić from FTUNS visited IMCASC
 - O. Bera from FTUNS visited DCPBUT
 - M. Maletin from FTUNS visited IMSNCSR
 - J. Pavličević from FTUNS visited IMCASC
 - M. Kašiarova / P. Tatarko from IMRSAS visited IMSNCSR
 - B. Mojić / V. Simendić / N. Vukić from FTUNS visited IMRSAS
 - M. Kachlik from DCPBUT visited UDE
- 12 one-month trainings:
 - D. Avramov from FTUNS visited DCPBUT
 - O. Bera from FTUNS visited DCPBUT
 - A. Duszová from IMRSAS visited IMCASC
 - V. Pouchly from DCPBUT visited FTUNS
 - E. Bartoničková / M. Kachlik from DCPBUT visited IMSNCSR
 - V. Puchy from IMRSAS visited DCPBUT
 - S. Ognjanović from FTUNS visited UDE
 - I. Ristić from FTUNS visited IMCASC
 - D. Drdlik from DCPBUT visited IMRSAS
 - A. Duszová from IMRSAS visited UDE
 - B. Mojić from FTUNS visited IMSNCSR
 - V. Simendić / N. Vukić from FTUNS visited IMRSAS

In addition, 19 visits for senior researcher were organized:

- 2 one-month visits
 - Dr. M. Špírková from IMCASC visited FTUNS (the second visit)
 - P. Tatarko from IMRSAS visited FTUNS
- 2 two-week visits
 - Dr. K. Častkova / Prof. K. Maca / Prof. M. Trunec from DCPBUT visited FTUNS
 - E. Csehova from IMRSAS visited FTUNS
- 7 one-week visits:
 - Prof. J. Budinski-Simendić from FTUNS visited IMCASC
 - Doc. B. Pilić from FTUNS visited DCPBUT
 - Prof. Lj. Nikolić from FTUNS visited DCPBUT
 - Prof. V. Srdić from FTUNS visited UDE
 - Prof. J. Budinski Simendić from FTUNS visited IMCASC
 - Prof. V. Srdić from FTUNS visited IMSNCSR
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- 22 one-week visits:
 - Prof. K. Maca from DCPBUT visited IMCASC
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 - Dr. E. Moshopoulou from IMSNCSR visited FTUNS

- Dr. K. Giannakopoulos from IMSNCSR visited FTUNS
- Dr. M. Špírková from IMCASCAR visited FTUNS
- Dr. V. Jan from DCPBUT visited IMRSAS
- R. Djenadić from UDE visited FTUNS
- Dr. M. Špírková from IMCASCAR visited IMRSAS
- Dr. M. Špírková from IMCASCAR visited DCPBUT
- Prof. K. Maca from DCPBUT visited FTUNS
- Dr. F. Lofaj from IMRSAS visited IMSNCSR
- Dr. M. Čubová Urbanová from IMCASCAR visited FTUNS
- Dr. J. Dusza from IMRSAS visited UDE
- Dr. P. Hvizdos from IMRSAS visited FTUNS
- Dr. K. Giannakopoulos from IMSNCSR visited UDE
- Dr. K. Giannakopoulos from IMSNCSR visited DCPBUT
- Dr. M. Špírková from IMCASCAR visited IMSNCSR
- Dr. J. Dusza from IMRSAS visited DCPBUT
- Dr. M. Kašiarová from IMRSAS visited FTUNS
- A. Duszová from IMRSAS visited IMCASCAR
- Prof. K. Maca from DCPBUT visited IMSNCSR
- Prof. K. Maca/ Prof. M. Trunec from DCPBUT visited UDE

Detailed description of all trainings and visits are given in the Progress Reports for the first, second and third project year.

3.2 WP 2 - Dissemination of information

The objective of this Work Package is dissemination of information during the lifetime of the project and afterwards, important for a successful realization of all established tasks. In addition to web site, different written dissemination materials, such as pamphlets, flyers etc., are very important for the successful realization of the Project with main goals to inform, mainly general public, about activities within the RP-DEMATEN, the capacities of our laboratories and researchers, their involvement in national, regional and international projects.

The plan for **the first year of the RP-DEMATEN Project** was completely realized – i) web site was installed, constantly updated and improved, ii) flyer about the RP-DEMATEN was printed and distributed at different meetings together with explanation about results and benefit of the Project, iii) information about the RP-DEMATEN was broadcasted by TV stations in Serbia as well as newspapers.

The plan for **the second year of the RP-DEMATEN Project** was completely realized: i) web site was constantly updated and improved, ii) flyer about the main Conference and the Training school was printed and distributed at different European conferences together with more important data about the Project, iii) information about the RP-DEMATEN was broadcasted by TV stations in Serbia, newspapers, as well as at different meetings.

The plan for **the third year of the RP-DEMATEN Project** was completely realized: i) web site was constantly updated and improved, ii) brochure (instead of pamphlet) in the form of final publication, containing important information about all important activities in the Project, was published and iii) information about the RP-DEMATEN was broadcasted by TV stations in Serbia, newspapers, as well as at different meetings.

Detailed description is given in the Progress Reports for the first, second and third project year.



3.3 WP 3 - Strengthening the human potential

Hiring of young researchers within DEMATEN at the Faculty of Technology, University of Novi Sad (FTUNS) was very important for the reinforcement of the human potential and provided a stimulative climate for creative scientific activities, in the field of nanostructured materials and nanotechnology. To strengthen the human potential, improve the quality of research activities and enable good training of young scientists at DEMATEN it was also planned to hire an experienced senior scientist and an experienced researcher coming back to the FTUNS. All of this enabled the research group of DEMATEN to become expert and competent in the challenging field of nanomaterials and nanotechnology and generally reinforce the WBC research potential.

The plan for **the first year of the RP-DEMATEN Project** was completely realized - two young scientists (J. Pavličević and I. Stijepović) were employed within DEMATEN at the FTUNS. Unfortunately, as the Grant Agreement was finally signed just on August 5th, 2008 (by the European Commission) and the starting date of the Project was May 1st, 2008, we were late with the beginning of our activities. Thus, instead of hiring two young scientists on the beginning of the first month we had to postpone it to the beginning of the fifth month of the Project.

The plan for **the second year of the RP-DEMATEN Project** was realized with some changes. Young researchers, J. Pavličević and I. Stijepović, continued their work at the Project during the whole 12 months, considerably improved themselves through trainings in the EU centers and trainings at DEMATEN supervised by professors from the FTUNS, hired experienced senior scientists and visitors. It is important to underline that J. Pavličević finalized her Ph.D. thesis and defended it on 25th June 2010. The position for experienced senior scientist from IMCASCR at the FTUNS was filled in the second Project year. More precisely, we have had the opportunity to employ two senior researchers from the IMCASC R on this position: Dr. Milena Špírková and Dr. Adam Strachota. Unfortunately, regarding the hiring of an experienced researcher coming back to the FTUNS, we had a problem. Our candidate Mr. Ružica Djenadić, selected already in the proposal for the position “Incoming Experienced Researcher” at the FTUNS, decided to stay longer at the University Duisburg-Essen, Germany. The problem was solved with the help of Project Officer Dr. Salvatore La Rosa, who gave us support to employ two researchers Mr. Milan Nikolić (with Serbian citizenship) and Dr. Konstantinos Giannakopoulos (with Greek citizenship), with payments within the allocated amount in the proposed budget. M. Nikolić (scientist with five years of research experience) was employed from 1st February 2010 until the end of the project. K. Giannakopoulos (well recognized scientist with a lot of experience in the field of nanostructured materials) was employed for 1½ months in the second and for two months in the third Project year.

The plan for **the third year of the RP-DEMATEN Project** was realized with some changes. Young researcher: I. Stijepović continued his work at the Project during the whole 12 months, considerably improved himself through trainings in the EU centres and trainings at DEMATEN supervised by professors from the FTUNS, hired experienced senior scientists and visitors. However, J. Pavličević was working only up to 4th November 2010 and then left the Project due to attending UNESCO postgraduate course in Polymer Science, organised at the Institute of Macromolecular Science of Czech Academy of Science in Prague. Thus, the position was filled by a young researcher, Oskar Bera, from 1st November 2010. The position for experienced senior scientist from the IMCASCR at the FTUNS was filled in the third Project year with two senior researchers from the IMCASC R: Dr. Milena Špírková and Dr. Jiří Brus. Incoming experienced researchers employed at the FTUNS: M. Nikolić continued his work at the Project during the whole 12 months and Dr. K. Giannakopoulos was employed for additional two months in the third Project year.

Detailed description is given in the Progress Reports for the first, second and third project year.

3.4 WP 4 - Upgrading research capacities

The objectives of the proposed project are reinforcement of research potential of DEMATEN and strengthening partnerships among centers of excellence established in the EU and the Western Balkan Countries (WBC). Thus, upgrading and renewal of S&T research equipment is one of the most important activities which should be realized through WP 4.

The plan for **the whole three Project years** was completely realized: i) Waters Gel Permeation Chromatograph and Malvern Zetasizer Nano ZS were purchased and delivered to the Department of Materials Engineering, Faculty of Technology, University of Novi Sad (*please see the figure bellow*) and ii) young scientists from the FTUNS were successfully trained on the installed equipment.



Detailed description is given in the Progress Reports for the first, second and third project year.

3.5 WP 5 - Workshops and training schools

Training schools, workshops and conference, organized within the frame of the RP-DEMATEN Project, are crucial for knowledge dissemination as well as education of scientists (especially young researchers) in recent development in nanotechnology, nanometrology and improved reliability of measurement and analysis at the nano-level.

The plan for **the first year of the RP-DEMATEN Project** was completely realized – the first Training school was held from 18th to 20th March 2009 at the Institute of Materials Research, Slovak Academy of Science, Košice, Slovakia.

The plan for **the second year of the RP-DEMATEN Project** was completely realized – the first Workshop (the Main conference) and the second Training school were held from 3rd to 6th December 2009 at the Faculty of Technology, University of Novi Sad, Serbia.

The plan for **the third year of the RP-DEMATEN Project** was completely realized: i) the second Workshop was held from 3rd to 5th of June 2010 in Ourinopoulo, Chalkidiki, Greece and ii) the third Workshop was held from 3rd till 5th March 2011 at the Faculty of Mechanical Engineering, Brno University of Technology, Brno, Czech Republic.



Detailed description is given in the Progress Reports for the first, second and third project year.

4. Deliverables and milestones tables

4.1. Deliverables-general (Changes)

As the Grant Agreement was finally signed only on August 5, 2008 (by the European Commission) and the starting date of the Project was May 1, 2008, and thus we were, unfortunately, late with the start of our activities. This created some necessary movements in the realization of the proposed tasks, and forced us to make some minor changes in the List of Deliverables, especially for WP5 and WP6.

4.1.1. List of deliverables for WP5

The first Training school was planned to be held in September 2008, after the Third International Conference “Fractography of Advanced Materials”. The main idea was to use the framework of the International Conference held in Slovakia, and disseminate knowledge and educate young scientists from the WBC and EU’s convergence region. Similarly, it was planned to organise the main Conference and the second Training school after the Eighth Students Meeting, SM-2009, “Processing and application of ceramics” which will be held in December 2009 in Novi Sad. The main idea was to use possibility to combine these three events and disseminate knowledge and educate young scientists not only from Serbia, but from other centres from the WBC and EU’s convergence region as well. Unfortunately, as the Grant Agreement was not signed until August 5, 2008 (by the European Commission), on the Kick-off Meeting (held in September 2008) we decided to postpone the terms of these events. Therefore, the Training school “Microstructure and fracture-mechanical properties of nanostructured materials” was held in March 2009 and the terms for the second Workshop in Greece and the third Workshop in Brno were moved to June 2010 and February/March 2011, respectively. We only kept the suggested term for the main Conference (the first Workshop) and the second Training school (December 2009).

According to the proposed changes, the list of deliverables (only the order of the corresponding deliverables) was changed as well, from:

- 5.1 Plan - Organization of the first Training school
- 5.2 Report - The first Training school
- 5.3 Plan - Organization of the first Workshop
- 5.4 Report - Progress in organization of the first Training school
- 5.5 Proceedings - The first Workshop
- 5.6 Plan - Organization of the Conference and the second Training school
- 5.7 Report - The second Training school and proceedings of the Conference
- 5.8 Report - Progress in organization of the first Workshop, the Conference and the second Training school
- 5.9 Plan - Organization of the second Workshop.
- 5.10 Proceedings - The second Workshop
- 5.11 Report - Progress in organization of the second Workshop

to (changes are underlined):

- 5.1 Plan - Organization of the first Training school
- 5.2 Report - The first Training school
- 5.3 Plan - Organization of the Conference (the first Workshop) and the second Training school
- 5.4 Report - Progress in organization of the first Training school
- 5.5 Proceedings - The Conference (the first Workshop) and the second Training school
- 5.6 Plan - Organization of the second Workshop

5.7 Report - Progress in organization of the Conference (the first Workshop) and the second Training school

5.8 Proceedings - The second Workshop

5.9 Plan - Organization of the third Workshop.

5.10 Proceedings - The third Workshop

5.11 Report - Progress in organization of the second and third Workshop

4.1.2. List of deliverables for WP6

The third Project Management Board (PMB) Meeting was held on 5th (9:30 to 12:30 h) December 2009, at the Faculty of Technology, University of Novi Sad, Novi Sad, Serbia. It is important to note that it was not planned in the Description of Work. The decision to organize it in Novi Sad, during the main Conference and the second Training school, was made at the second PMB meeting held in Košice (March 2009), as we observed that we would have a long break between two PMB meetings (the one in Košice in March 2009 and the second in Greece in June 2010). In addition, the Project coordinator confirmed that the PMB meeting will be organized within the allocated budget for the main Conference and the second Training school.

At the fourth PMB meeting at Chalkidiki, Greece we discussed that it would be good if we could organize one more PMB Meeting as there is a long period between two PMB meetings in June 2010 and in March 2011, especially in the final Project year. All PMB members agreed that the next PMB meeting (the fifth PMB Meeting) could be organized on 8th September 2010 in Herceg Novi, Montenegro, during the YUCOMAT Conference (as already three PMB members: Prof. J. Budinski Simendić, J. Dusza and M. Špirkova will participate at the Conference). In addition, the Project coordinator confirmed that the fifth PMB meeting would not require a lot of funds and would be organized within the allocated budget for the PMB meetings.

According to the proposed changes the list of deliverables (new deliverable for two additional PMB meetings have to be involved) was changed as well, from:

- 6.1 The Kick-off Meeting**
- 6.2 The first PMB Meeting**
- 6.3 Report - Progress in management in the first year**
- 6.4 The second PMB Meeting**
- 6.5 Report - Progress in management in the second year**
- 6.6 The third PMB Meeting**
- 6.7 Report - Progress in management in the third year**
- 6.8 Final report**

to (changes are underlined):

- 6.1 The Kick-off Meeting (the first PMB)**
- 6.2 The second PMB Meeting**
- 6.3 Report - Progress in management in the first year**
- 6.4 The third PMB Meeting**
- 6.5 Report - Progress in management in the second year**
- 6.6 The fourth PMB Meeting**
- 6.7 The fifth PMB meeting**
- 6.8 The sixth PMB Meeting**
- 6.9 Report - Progress in management in the third year**
- 6.10 Final report**

4.1.3. List of deliverables for all WPs

According to the proposed changes the complete list of deliverables was changed as well, from:

- D1 - 3.1 Report - Hiring of two young researchers at FTUNS**
- D2 - 6.1. The Kick-off Meeting**
- D3 - 1.1 Plan - Mobility and training**
- D4 - 2.1 Web site installation**
- D5 - 4.1 Tender documentation for equipment**
- D6 - 5.1 Plan - Organization of the first Training school**
- D7 - 4.2 Report - Selection of the best offer for equipment**
- D8 - 4.3 Report - Equipment: purchase, installation, training**
- D9 - 2.2 Dissemination of information (flyer-1)**
- D10 - 5.2 Report - The first Training school**
- D11 - 6.2 The first PMB Meeting**
- D12 - 5.3 Plan - Organization of the first Workshop**
- D13 - 1.2, 2.3, 3.2, 5.4, 6.3 Report - Progress in activities in the first year**
- D14 - 3.3 Report - Hiring of the incoming researcher at FTUNS**
- D15 - 3.4 Report - Hiring of senior researcher at FTUNS**
- D16 - 5.5 Proceedings - The first Workshop**
- D17 - 5.6 Plan - Organization of the Conference and the second Training school**
- D18 - 2.4 Dissemination of information (pamphlet)**
- D19 - 6.4 The second PMB Meeting**
- D20 - 5.7 Report - The second Training school and proceedings of the Conference**
- D21 - 1.3, 2.5, 3.5, 5.8, 6.5 Report - Progress in activities in the second year**
- D22 - 5.9 Plan - Organization of the second Workshop**
- D23 - 2.6 Dissemination of information (flyer-2)**
- D24 - 5.10 Proceedings - The second Workshop**
- D25 - 6.6 The third PMB Meeting**
- D26 - 1.4, 2.7, 3.6, 5.11, 6.7 Report - Progress in activities in the third year**
- D27 - 6.8 Final report.**

to (changes are indicated in red and underlined):

- D1 - 3.1 Report - Hiring of two young researchers at FTUNS**
- D2 - 6.1 The Kick-off Meeting**
- D3 - 1.1 Plan - Mobility and training**
- D4 - 2.1 Web site installation**
- D5 - 4.1 Tender documentation for equipment**
- D6 - 5.1 Plan - Organization of the first Training school**
- D7 - 4.2 Report - Selection of the best offer for equipment**
- D8 - 4.3 Report - Equipment: purchase, installation, training**
- D9 - 2.2 Dissemination of information (flyer-1)**
- D10 - 5.2 Report - The first Training school**
- D11 - 6.2 The first PMB Meeting**
- D12 - 5.3 Plan - Organization of the first Workshop**
- D13 - 1.2, 2.3, 3.2, 5.4, 6.3 Report - Progress in activities in the first year**
- D15 - 3.3 Report - Hiring of the incoming researcher at FTUNS**
- D14 - 3.4 Report - Hiring of senior researcher at FTUNS**
- D16 - 5.5 Proceedings - The first Workshop and the second Training school**
- D17 - 5.6 Plan - Organization of the second Workshop**
- D18 - 2.4 Dissemination of information (flyer-2)**

D19 - 6.4 The third PMB Meeting

D20 - 1.3, 2.5, 3.5, 5.7, 6.5 Report - Progress in activities in the second year

D21 - 5.8 Proceedings - The second Workshop

D22 - 6.6 The fourth PMB Meeting

D23 - 6.7 The fifth PMB Meeting

D24 - 5.9 Plan - Organization of the third Workshop

D25 - 5.10 Proceedings - The third Workshop

D26 - 6.8 The sixth PMB Meeting

D27 - 2.6 Dissemination of information (brochure-activities overview)

D28 - 1.4, 2.7, 3.6, 5.11, 6.9 Report - Progress in activities in the third year

D29 - 6.10 Final report

4.2. Deliverables and milestones tables

WP 1 - Mobility and training

Table 4.1.1 List of WP 1 Deliverables

Del. no.	Deliverable name	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Delivered Yes/No	Actual / Forecast delivery date	Comments
1.1	Plan - Mobility and training	WP 1	4	R	PP	PM2	Yes	PM5 26/09/08	
1.2	Report - Progress in activities in the first year	WP1	4	R	RE	PM12	Yes	PM13 29/05/09	
1.3	Report - Progress in activities in the second year	WP1	4	R	RE	PM24	Yes	PM26 23/06/10	
1.4	Report - Progress in activities in the third year	WP1	4	R	RE	PM36	Yes	PM36 11/07/11	

Table 4.1.2 List of WP 1 Milestones

Milestone no.	Milestone name	WP no.	Lead beneficiary	Delivery date from Annex I	Achieved Yes/No	Actual /Forecast achievement date	Comments
1.1	Mobility & training plan	WP 1	IMSNCSR	PM2	Yes	PM5 26/09/08	Report - "Mobility & training plan"
1.2	Mobility & training	WP 1	IMSNCSR	PM12	Yes/No*	PM13 29/05/09	Report - "Mobility & training"
1.2	Mobility & training	WP 1	IMSNCSR	PM24	Yes/No*	PM26 23/06/10	Report - "Mobility & training"
1.2	Mobility & training	WP 1	IMSNCSR	PM36	Yes	PM36 11/07/11	Report - "Mobility & training"

* Most of the activities were done, but some of the trainings/visits planned for the second Project year will be organized in the third Project year

WP 2 - Dissemination of information

Table 4.2.1 List of WP 2 Deliverables

Del. no.	Deliverable name	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Delivered Yes/No	Actual / Forecast delivery date	Comments
2.1	Web site installation	WP 2	IMRSAS	R	PU	PM3	Yes	PM6 31/10/08	
2.2	Dissemination of information (flyer-1)	WP 2	IMRSAS	R	PU	PM7	Yes	PM10 27/02/09	
2.3	Report - Progress in activities in the first year	WP2	IMRSAS	R	RE	PM12	Yes	PM13 29/05/09	
2.4	Dissemination of information (pamphlet)	WP 2	IMRSAS	R	PU	PM20	Yes	PM14 15/06/09	
2.5	Report - Progress in activities in the second year	WP2	IMRSAS	R	RE	PM24	Yes	PM26 23/06/10	
2.6	Dissemination of information (brochure – activity overview)	WP 2	IMRSAS	R	PU	PM30	Yes	PM36 11/07/11	
2.7	Report - Progress in activities in the third year	WP 2	IMRSAS	R	RE	PM36	Yes	PM36 11/07/11	

Table 4.2.2 List of WP 2 Milestones

Milestone no.	Milestone name	WP no.	Lead beneficiary	Delivery date from Annex I	Achieved Yes/No	Actual /Forecast achievement date	Comments
2.2	Preparation of web site	WP 2	IMRSAS	PM3	Yes	PM6 31/10/08	Installation web site on server
2.3	Flyers and pamphlets	WP 2	IMRSAS	PM7	Yes	PM6 27/02/09	Flyer-1
2.3	Flyers and pamphlets	WP 2	IMRSAS	PM20	Yes	PM18 30/10/09	Flyer-2
2.3	Flyers and pamphlets	WP 2	IMRSAS	PM30	Yes	PM10 11/07/11	Brochure

WP 3 - Strengthening the human potential

Table 4.3.1 List of WP 3 Deliverables

Del. no.	Deliverable name	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Delivered Yes/No	Actual / Forecast delivery date	Comments
3.1	Report - Hiring of two young researchers at FTUNS	WP 3	FTUNS	R	PP	PM1	Yes	PM5 01/09/08	
3.2	Report - Progress in activities in the first year	WP3	FTUNS	R	RE	PM12	Yes	PM13 27/06/09	
3.3	Report - Hiring of the incoming researcher at FTUNS	WP 3	FTUNS	R	PP	PM13	Yes	PM22 05/02/10	
3.4	Report - Hiring of senior researcher at FTUNS	WP 3	FTUNS	R	PP	PM15	Yes	PM18 12/10/09	
3.5	Report - Progress in activities in the second year	WP 3	FTUNS	R	RE	PM24	Yes	PM26 23/06/10	
3.6	Report - Progress in activities in the third year	WP 3	FTUNS	R	RE	PM36	Yes	PM36 11/07/11	

Table 4.3.2 List of WP 3 Milestones

Milestone no.	Milestone name	WP no.	Lead beneficiary	Delivery date from Annex I	Achieved Yes/No	Actual /Forecast achievement date	Comments
3.1	Hiring of two young researchers	WP 3	FTUNS	PM1	Yes	PM5 01/09/08	Report - "Open position for new scientists"
3.2	Hiring of incoming researchers	WP 3	FTUNS	PM13	Yes	PM22 05/02/10	Report - "Hiring of incoming scientists"
3.3	Hiring of senior scientists	WP 3	FTUNS	PM15	Yes	PM18 12/10/09	Report - "Hiring of senior scientists"

WP 4 - Upgrading research capacities

Table 4.4.1 List of WP 4 Deliverables

Del. no.	Deliverable name	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Delivered Yes/No	Actual / Forecast delivery date	Comments
4.1	Tender documentation for equipment	WP 4	FTUNS	R	PP	PM3	Yes	PM7 22/11/08	
4.2	Report - Selection of the best offer for equipment	WP 4	FTUNS	R	PP	PM4	Yes	PM8 25/12/08	
4.3	Report - Equipment: purchase, installation, training	WP 4	FTUNS	R	PP	PM6	Yes	PM10 12/02/09	

Table 4.4.2 List of WP 4 Milestones

Milestone no.	Milestone name	WP no.	Lead beneficiary	Delivery date from Annex I	Achieved Yes/No	Actual /Forecast achievement date	Comments
4.1	Tender for purchasing of equipment	WP 4	FTUNS	PM3	Yes	PM84 25/12/08	Report - "Best offer selection"
4.2	Purchase & installation of equipment	WP 4	FTUNS	PM6	Yes	PM10 12/02/09	Report - "installation of equipment"

WP 5 - Workshops and Training schools

Table 4.5.1 List of WP 5 Deliverables

Del. no.	Deliverable name	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Delivered Yes/No	Actual / Forecast delivery date	Comments
5.1	Plan - Organization of the first Training school	WP 5	DCPBUT	R	PP	PM3	Yes	PM5 26/09/08	
5.2	Report - The first Training school	WP 5	DCPBUT	R	PU	PM9	Yes	PM10 31/03/09	
5.3	Plan - Organization of the first Workshop	WP 5	DCPBUT	R	PP	PM10	Yes	PM10 31/03/09	
5.4	Report - Progress in activities in the first year	WP 5	DCPBUT	R	RE	PM12	Yes	PM13 29/05/09	
5.5	Proceedings - The first Workshop	WP 5	DCPBUT	R	PU	PM16	Yes	PM20 07/12/09	
5.6	Plan - Organization of The second Workshop	WP 5	DCPBUT	R	PP	PM17	Yes	PM20 07/12/09	
5.7	Report - Progress in activities	WP 5	DCPBUT	R	RE	PM24	Yes	PM26	

	in the second year							23/06/10	
5.8	Report - Proceedings of the second Workshop	WP 5	DCPBUT	R	PU	PM24	Yes	PM26 23/06/10	
5.9	Plan - Organization of the third Workshop	WP 5	DCPBUT	R	PP	PM28	Yes	PM29 09/09/10	
5.10	Proceedings - The third Workshop	WP 5	DCPBUT	R	PU	PM34	Yes	PM33 06/03/11	
5.11	Report - Progress in activities in the third year	WP 5	DCPBUT	R	RE	PM36	Yes	PM36 11/07/11	

Table 4.5.2 List of WP 5 Milestones

Milestone no.	Milestone name	WP no.	Lead beneficiary	Delivery date from Annex I	Achieved Yes/No	Actual /Forecast achievement date	Comments
5.1	The first Training schools	WP 5	DCPBUT	PM9	Yes	PM10 31/03/08	Reports – The first training schools
5.1	The first Training schools	WP 5	DCPBUT	PM23	Yes	PM20 07/12/09	Reports – The second training schools
5.2	Proceedings - conference and workshops	WP 5	DCPBUT	PM16	Yes	PM20 07/12/09	Proceedings of the first Workshop
5.2	Proceedings - conference and workshops	WP 5	DCPBUT	PM23	Yes	PM26 23/06/10	Proceedings of the second Workshop
5.2	Proceedings - conference and workshops	WP 5	DCPBUT	PM34	Yes	PM33 06/03/11	Proceedings of the third Workshop

WP 6 - Project management

Table 4.6.1 List of WP 6 Deliverables

Del. no.	Deliverable name	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Delivered Yes/No	Actual / Forecast delivery date	Comments
6.1	The Kick-off Meeting	WP 6	FTUNS	R	RE	PM1	Yes	PM5 27/09/08	
6.2	The second PMB Meeting	WP 6	FTUNS	R	RE	PM10	Yes	PM10 31/03/09	
6.3	Report - Progress in activities in the first year	WP 6	FTUNS	R	RE	PM12	Yes	PM13 29/05/09	
6.4	The third PMB Meeting	WP 6	FTUNS	R	RE	PM23	Yes	PM20 07/12/09	
6.5	Report - Progress in activities in the second year	WP 6	FTUNS	R	RE	PM24	Yes	PM26 23/06/10	
6.6	The fourth PMB Meeting	WP 6	FTUNS	R	RE	PM25	Yes	PM26 23/06/10	
6.7	The fifth PMB Meeting	WP 6	FTUNS	R	RE	-	Yes	PM29 09/09/10	
6.8	The sixth PMB Meeting	WP 6	FTUNS	R	RE	-	Yes	PM35 06/03/11	
6.9	Report - Progress in activities in the third year	WP 6	FTUNS	R	RE	PM36	Yes	PM36 11/07/11	
6.10	Final report	WP 6	FTUNS	R	RE	PM36	Yes	PM36 11/07/11	

Table 4.6.2 List of WP 6 Milestones

Milestone no.	Milestone name	WP no.	Lead beneficiary	Delivery date from Annex I	Achieved Yes/No	Actual /Forecast achievement date	Comments
6.1	The Kick off Meeting	WP 6	FTUNS	PM1	Yes	PM5 27/09/08	Minute from Kick off meeting
6.2	The second PMB meeting	WP 6	FTUNS	PM10	Yes	PM10 31/03/09	Minutes from PMB meeting
6.2	The third PMB meeting	WP 6	FTUNS	PM23	Yes	PM20 07/12/09	Minutes from PMB meeting
6.2	The fourth PMB meeting	WP 6	FTUNS	PM25	Yes	PM26 23/06/10	Minutes from PMB meeting
6.2	The fifth PMB meeting	WP 6	FTUNS	-	Yes	PM29 09/09/10	Minutes from PMB meeting
6.2	The sixth PMB meeting	WP 6	FTUNS	-	Yes	PM35 06/03/11	Minutes from PMB meeting
6.3	Annual reports	WP 6	FTUNS	PM12, PM24, PM36	Yes	PM36 11/07/11	Annual report
6.4	Final report	WP 6	FTUNS	PM36	Yes	PM36 11/07/11	Final report

5. Project management

5.1 Introduction

Main tasks of management of the project are: detailed planning of technical work, deliverables, planning and organization of PMB Meetings, training school and workshops, detailed monitoring of technical progress, preparation of technical progress reports, setting deadlines, approving of time records and other steps in the field of administration.

The plan for **the first year of the RP-DEMATEN Project** was completely realized. The most important activities were: i) organization of the Kick-off Meeting (the first PMB meeting) in Novi Sad and the second PMB meeting in Košice, ii) control of the hiring process of young researchers, iii) organization of all trainings and visits, iv) control of the complete procedure of purchasing new equipments, v) organization of a the training school and vi) dissemination of information.

The plan for **the second year of the RP-DEMATEN Project** was completely realized. The most important activities were: i) organization of the main conference and the second training school, ii) organization of the third PMB meeting in Novi Sad, iii) organization of all trainings and visits, iv) control of the complete procedure of installation of new equipment and trainings, v) dissemination of information.

The plan for **the third year of the RP-DEMATEN Project** was completely realized. The most important activities were: i) organization of two workshops, ii) organization of three PMB meetings, iii) organization of all trainings and visits, iv) control of the hiring and v) dissemination of information.

5.2 Achievements

Detailed description together with the draft minutes of all PMB meeting are given in the Progress Reports for the first, second and third project year.

5.3 Budget

Project RP-DEMATEN consists of six WPs, and five of them are devoted to SSA, while WP6 is related to management activities. Detailed description of budget for each WP is given below.

5.3.1 Budget WP1 – Mobility and training

Plan

1. Six-months trainings in UDE-Duisburg for 2 young researches from FTUNS-Novı Sad (average amount per person is 1.300,00 € per month and up to 400,00 € for travelling costs) **16.400,00 €**.
2. Two-months trainings in EU institution for 7 young researches from FTUNS-Novı Sad, IMRSAS- Košice and DCPBUT-Brno (average amount per person is 1.300,00 € per month and up to 400,00 € for travelling costs) **21.000,00 €**.
3. One-month trainings in EU institution for 11 young researches from FTUNS-Novı Sad, IMRSAS-Košice and DCPBUT-Brno (average amount per person is 1.300,00 € per month and up to 400,00 € for travelling costs) **18.700,00 €**.
4. One-month visits to FTUNS-Novı Sad for 5 researchers from EU institutions (average amount per person is 2.200,00 € per visit and up to 400,00 € for travelling costs) **13.000,00 €**.

5. Two-week visits to FTUNS-Novı Sad for 4 senior researchers from EU institutions (average amount per person is 1.600,00 € per visit and up to 400,00 € for travelling costs) **8.000,00 €**.
6. One-week visits in EU institution for 5 scientists from FTUNS-Novı Sad (average amount per person is 600,00 € per visit and up to 400,00 € for travelling costs) **5.000,00 €**.
7. One-week visits for 21 researchers from EU institutions (average amount per person is 800,00 € per visit and up to 400,00 € for travelling costs) **25.200,00 €**
8. Deliverables for host institutions (except FTUNS) regarding direct costs for young researchers, which will be spent during training (such as chemicals, precursors, laboratory glasses, standard samples etc.) (1.000,00 € per month, i.e. 37 x 1.000,00 €) **37.000,00 €**.

Realization

1. Six-months trainings (**3.144,70 €** was spent in the second and **15.624,50 €** in the third Project year)

(I. Stijepović - UDE)

- Travel expenses (plain ticket) for I. Stijepović (Novı Sad, Serbia) – 193,66 € (for the first two months);
- Accommodation and living costs for I. Stijepović (Novı Sad, Serbia) – 2.754,00 € (for the first two months);
- Travel expenses (plain ticket) for I. Stijepović (Novı Sad, Serbia) – 197,04 € (for the second two months).
- Accommodation and living costs for I. Stijepović (Novı Sad, Serbia) – 2.503,00 € (for the second two months/1);
- Travel expenses (plain ticket) for I. Stijepović (Novı Sad, Serbia) – 176,82 € (for the third two months/1);
- Accommodation and living costs for I. Stijepović (Novı Sad, Serbia) – 2.853,00 € (for the third two months/1);

(B. Mojić, S. Ognjanović and E. Csehova - UDE)

- Travel expenses (plain ticket) for B. Mojić (Novı Sad, Serbia) – 91,69 + 113,09 € (for the 1st month/2);
- Travel expenses (plain ticket) for S. Ognjanović (Novı Sad, Serbia) – 193,12 € (for the 1st month/2);
- Travel expenses (plain ticket) for E. Csehova (Novı Sad, Serbia) – 193,12 € (for the 1st month/2);
- Accommodation and living costs for B. Mojić/E. Csehova (Novı Sad, Serbia) – 522,00 € (for the 1st month/2);
- Workshop fees for S. Ognjanović, B. Mojić, E. Csehova, M. Kachlik – 600,00 € (for the 1st month/2);
- Travel expenses (plain ticket) for S. Ognjanović (Novı Sad, Serbia) – 161,00 € (for the 2nd, 3rd and 4th months/2);
- Accommodation and living costs for S. Ognjanović (Novı Sad, Serbia) – 4.995,00 € (for the 2nd, 3rd and 4th month/2);
- Travel expenses (plain ticket) for B. Mojić (Novı Sad, Serbia) – 112,76 € (for the 5th month/2);
- Accommodation and living costs for B. Mojić (Novı Sad, Serbia) – 1.206,55 € (for the 5th month/2);
- Travel expenses (plain ticket) for B. Mojić (Novı Sad, Serbia) – 153,35 € (for the 6th month/2);

- Accommodation and living costs for B. Mojić (Novi Sad, Serbia) – 1.750,00 € (for the 6th month/2).
2. Two-months trainings (**4.279,99 €** was spent in the first, **7.157,27 €** in the second and **9.536,07 €** in the third Project year)
- (J. Pavličević and I. Ristić - IMCASCAR)
- Travel accommodation and living costs for J. Pavličević (Novi Sad, Serbia) – 1.565,92 €;
 - Accommodation and living costs for I. Ristić (Novi Sad, Serbia) – 1.269,18 €;
- (M. Maletin – IMSNCSR)
- Travel expenses and advance payment for accommodation and living costs for M. Maletin (Novi Sad, Serbia) – 2.247,93 €,
 - Final calculation for accommodation and living costs for M. Maletin (Novi Sad, Serbia) 707,44 €;
- (O. Bera – DCPBUT)
- Travel expenses for O. Bera (Novi Sad, Serbia) – 153,74 €;
 - Travelling costs (train ticket) for O. Bera (Novi Sad, Serbia) – 144,63 €;
 - Accommodation and living costs for O. Bera (Novi Sad, Serbia) – 2.040,00 €;
- (J. Pavličević – IMCASCAR)
- Travel expenses for J. Pavličević (Novi Sad, Serbia) – 312,40 €.
 - Accommodation and living costs for J. Pavličević (Novi Sad, Serbia) – 2.701,02 €;
- (P. Tatarko and M. Kašiarova – IMSNCSR)
- Travelling expenses (plane ticket) for P. Tatarko (Košice, Slovakia) – 295,00 €;
 - Accommodation and living costs for P. Tatarko (Košice, Slovakia) – 1.813,97 € (for the 1st month);
 - Accommodation and living costs for M. Kasiarova (Košice, Slovakia) – 1.870,52 € (for the 2nd month);
- (N. Vukić, B. Mojić and V. Simendić – IMRSAS,
- Travel, accommodation and living costs for N. Vukić, B. Mojić and V. Simendić (Novi Sad, Serbia) – 1.457,20 + 716,54 €;
- (M. Kachlik in UDE)
- Travel costs (plane ticket) for M. Kachlik (Brno, Czech Republic) – 187,18 €;
 - Accommodation and living costs for M. Kachlik (Brno, Czech Republic) – 3.490,66 €;
3. One-month trainings (**4.499,85 €** was spent in the second and **11.468,35 €** in the third Project year)
- (D. Avramov – DCPBUT)
- Travel, accommodation and living costs for D. Avramov (Novi Sad, Serbia) (307,24+131,96 €+129,68 €) – 568,88 €;
- (O. Bera – DCPBUT)
- Travel, accommodation and living costs for O. Bera (Novi Sad, Serbia) were covered from other project;
- (I. Ristić – IMCASCAR)
- Travel costs (train ticket) for I. Ristić (Novi Sad, Serbia) – 74,55 €;
 - Accommodation and living costs for I. Ristić (Novi Sad, Serbia) – 1.624,46 €;
- (S. Ognjanović – UDE)
- Travel costs (train ticket) for S. Ognjanović (Novi Sad, Serbia) – 176,82 €;
 - Accommodation and living costs for S. Ognjanović (Novi Sad, Serbia) – 1.523,19 €;

- (B. Mojić – IMSNCSR)
 - Travel costs (train ticket) for B. Mojić (Novi Sad, Serbia) – 277,56 €;
 - Accommodation and living costs for B. Mojić (Novi Sad, Serbia) – 250,00 €;
- (V. Simendić and N. Vukić – IMRSAS)
 - Travel costs (car) for V. Simendić and N. Vukić (Novi Sad, Serbia) – 274,18 + 13,47 + 33,27 + 30,49 €;
 - Accommodation and living costs for V. Simendić (Novi Sad, Serbia) – 521,78 €;
 - Accommodation and living costs for N. Vukić (Novi Sad, Serbia) – 521,78 €;
- (A. Duszova – IMCASCAR)
 - Travel expenses for A. Duszová (Košice, Slovakia) – 172,27 €;
 - Accommodation and living costs for A. Duszová (Košice, Slovakia) – 814,84 €;
- (V. Puchy – DCPBUT)
 - Travel, accommodation and living costs for V. Puchy (Košice, Slovakia) – 1.219,76 €;
- (A. Duszova – UDE)
 - Travel costs for A. Duszova (Košice, Slovakia) – 306,61 €;
 - Accommodation costs for A. Duszova (Košice, Slovakia) – 400,05 €;
 - Living costs for A. Duszova (Košice, Slovakia) – 2.082,05 €;
- (V. Pouchly – FTUNS)
 - Travel, accommodation and living costs for V. Pouchly (Brno, Czech Republic) – 1.711,94 €;
- (E. Bartoničková and M. Kachlik – IMSNCSR)
 - Travel expenses (plain ticket) for E. Bartoničková (Brno, Czech Republic) – 264,43 €;
 - Accommodation and living costs for E. Bartoničková (Brno, Czech Republic) – 967,49 € (for the first two weeks);
 - Travel costs (plane ticket) for M. Kachlik (Brno, Czech Republic) – 353,65 €;
 - Accommodation (hotel) costs for M. Kachlik (Brno, Czech Republic) – 320,00 €;
 - Living costs for M. Kachlik (Brno, Czech Republic) – 254,22 €;
- (D. Drdlik – IMRSAS)
 - Travel costs (insurance) for D. Drdlik (Brno, Czech Republic) – 21,80 €;
 - Accommodation and living costs for D. Drdlik (Brno, Czech Republic) – 1.188,66 €;
- 4. One -month visits (**1.355,05 €** was spent in the second and **3.323,02 €** in the third Project year)
 - (M. Špírková – FTUNS)
 - Travel, accommodation and living costs for M. Špírková (Prague, Czech Republic) – 1.355,05 € (for the first two weeks);
 - Travel, accommodation and living costs for M. Špírková (Prague, Czech Republic) – 936,44 € (for the second two weeks);
 - (P. Tatarko – FTUNS)
 - Travel, accommodation and living costs for P. Tatarko (Košice, Slovakia) – 1.584,46 € (for the 1st, 2nd and 3rd weeks);
 - Travel, accommodation and living costs for P. Tatarko (Košice, Slovakia) – 802,12 € (for the 4th weeks);
- 5. Two-weeks visit (**2.943,09 €** was spent in the third Project year)
 - (K. Maca, K. Častková, M. Trunec – FTUNS)
 - Travel, accommodation and living costs for K. Maca, K. Častková, M. Trunec (Brno, Czech Republic) – 1.915,21 + 28,56 €;
 - (E. Csehová in FTUNS)
 - Travel accommodation and living costs for E. Csehová (Košice, Slovakia) – 999,32 €;

6. One-week visits (**2.282,34 €** was spent in the first, **961,97 €** was spent in the second and **1.547,24 €** in the third Project)
- (J. Budinski-Simendić – IMCASCOR)
 - Travel, accommodation and living costs for J. Budinski-Simendić (Novi Sad, Serbia) – 948,71 €
 - (B. Pilić – DCPBUT)
 - Travel, accommodation and living costs for B. Pilić (Novi Sad, Serbia) – 825,63 €
 - (Lj. Nikolić – DCPBUT)
 - Travel, accommodation and living costs for L. Nikolić (Novi Sad, Serbia) – 508,00 €
 - (V. Srdić – UDE)
 - Travel expenses (plane ticket) for V. Srdić (Novi Sad, Serbia) – 274,97 €;
 - Accommodation and living costs for V. Srdić (Novi Sad, Serbia) – 687,00 €;
 - (V. Srdić – IMSNCSR)
 - Travel costs (plane ticket) for V. Srdić (Novi Sad, Serbia) – 268,37 €;
 - Travel costs (transportation to/from airport) for V. Srdić (Novi Sad, Serbia) – 59,17 €;
 - Accommodation (hotel) costs for V. Srdić (Novi Sad, Serbia) – 350,00 €;
 - (J. Budinski-Simendić – IMCASCOR)
 - Accommodation and living costs for J. Budinski-Simendić (Novi Sad, Serbia) – 342,00 €;
 - (J. Budinski-Simendić – IMRSAS)
 - Travel, accommodation and living costs for J. Budinski-Simendić (Novi Sad, Serbia) – 527,70 €;
7. Four one-week visits (**2.993,27 €** was spent in the first, **2.210,72 €** in the second and **12.250,45 €** in the third Project year)
- (K. Giannakopoulos – FTUNS)
 - Travel costs (plane ticket Athens-Belgrade Larnaka) K.Giannakopoulos 298,28 €
 - (K. Giannakopoulos in UDE)
 - Travel, accommodation and living costs for K. Giannakopoulos (Athens, Greece) – 857,40 €;
 - (K. Giannakopoulos in DCPBUT)
 - Travel, accommodation and living costs for K. Giannakopoulos (Athens, Greece) – 825,25 €;
 - (E. Moshopoulou – FTUNS)
 - Travel, accommodation and living costs for E. Moshopoulou (Athens, Greece) – 1.202,07 €.
 - (M. Špírková – FTUNS)
 - Travel, accommodation and living costs for M. Špírková (Prague, Czech Republic) – 1.154,08 €.
 - (M. Špírková – IMRSAS)
 - Travel, accommodation and living costs for M. Špírková (Prague, Czech Republic) – 872,27 €;
 - (M. Špírková – DCPBUT)
 - Travel expenses for M. Špírková (Prague, Czech Republic) – 27,61 € (for the first part);
 - Travel, accommodation and living costs for M. Špírková (Prague, Czech Republic) – 20,72 € (for the second part);
 - (M. Čubova-Urbánová in FTUNS)

- Travel, accommodation and living costs for M. Cubova-Urbanova (Prague, Czech Republic) – 723,91 €;
- (M. Spirkova in IMSNCSR)
 - Travel, accommodation and living costs for M. Spirkova (Prague, Czech Republic) – 1.029,93 €;
- (F. Lofaj – IMSNCSR)
 - Travel costs for F. Lofaj (Košice, Slovakia) – 290,89 €;
 - Travel costs (transportation to airports) for F. Lofaj (Košice, Slovakia) – 25,80 €;
 - Accommodation and living costs for F. Lofaj (Košice, Slovakia) – 443,50 €;
 - Travel costs (plane ticket) for F. Lofaj (Košice, Slovakia) – 437,61 €;
 - Accommodation and living costs for F. Lofaj (Košice, Slovakia) – 828,32 €;
- (J. Dusza in UDE)
 - Travel costs (plane ticket) for J. Dusza (Košice, Slovakia) – 407,72 €;
 - Accommodation costs for J. Dusza (Košice, Slovakia) – 430,05 €;
 - Living costs for J. Dusza (Košice, Slovakia) – 249,10 €;
- (P. Hvizdos in FTUNS)
 - Travel, accommodation and living costs for P. Hvizdos (Košice, Slovakia) – 801,05 €;
- (J. Dusza in DCPBUT)
 - Travel, accommodation and living costs for J. Dusza (Košice, Slovakia) – 888,09 €;
- (M. Kasiarova in FTUNS)
 - Travel, accommodation and living costs for M. Kasiarova (Košice, Slovakia) – 1.012,72 €;
- (A. Duszaova in IMCASCAR)
 - Accommodation and living costs for A. Dusza (Košice, Slovakia) – 304,31 €;
 - Travel costs (plane ticket) for A. Dusza (Košice, Slovakia) – 380,00 €;
- (K. Maca – IMCASCAR)
 - Travel, accommodation and living costs for K. Maca (Brno, Czech Republic) during the first visit – 200,83 €;
 - Travel, accommodation and living costs for K. Maca (Brno, Czech Republic) during the second visit – 138,01 €;
- (V. Jan – IMRSAS)
 - Travel, accommodation and living costs for V. Jan (Brno, Czech Republic) – 174,63 €;
- (K. Maca – FTUNS)
 - Travel, accommodation and living costs for K. Maca (Brno, Czech Republic) – 845,32 €;
- (K. Maca – IMCASCAR)
 - Travel, accommodation and living costs for K. Maca (Brno, Czech Republic) – 140,57 + 2,04 €;
- (K. Maca – IMSNCSR)
 - Travel costs (plane ticket) for K. Maca (Brno, Czech Republic) – 363,19 €;
 - Accommodation and living costs for K. Maca (Brno, Czech Republic) – 676,20 €;
- (K. Maca and M. Trunec – UDE)
 - Travel costs (plane tickets) for K. Maca, M. Trunec (Brno, Czech Republic) – 786,76 €;
 - Travel costs (transportation to airports) for K. Maca, M. Trunec (Brno, Czech Republic) – 11,28 + 11,28 €;
 - Accommodation and living costs for K. Maca, M. Trunec (Brno, Czech Republic) – 593,65 €;
- (R. Djenadic – FTUNS)
 - Costs were covered from another project.

8. Deliverables (**4.228,57 €** was spent in the first, **6.907,53 €** in the second and **19.369,17 €** in the third Project year)

The first Project year

- For training of J. Pavličević and I. Ristić at IMCASCAR 1.667,47 € was spent:
- For training of M. Maletin at IMSNCSR 560,85 € was spent:
- For training of O. Bera at DCPBUT 2.000,25 € was spent:

The second Project year

- For training of J. Pavličević at IMCASCAR (held in the first year) 1.917,19 € was spent:
226,13 € - chemicals (N,N-dimethylacetamide)
50,70 € - chemicals (tetrahydrofurane)
125,15 € - liquid nitrogen
20,28 € - chemical glass, PE bottles, needles, clamps
15,72 € - magnetic stirrers
1.456,37 € - chemicals (L-histidine-15N3)
22,84 € - chemicals (acetone)
- For training of M. Maletin at IMSNCSR (held in the first year) 252,67 € was spent:
95,57 € - office supplies
15,17 € - office supplies
16,19 € - consumables for magnetometer (helium etc)
125,74 € - office supplies
- For training of D. Avramov at DCPBUT 1000,00 € was spent:
1.000,00 € - chemicals - Taimicron alumina powder
- For training of V. Pouchly at TFUNS 746,76 € was spent:
319,89 € - chemicals ($\text{Fe}(\text{NO}_3)_3$, $\text{Ga}(\text{NO}_3)_3$, TiO_2 , $\text{C}_2\text{H}_5\text{OH}$)
127,97 € - chemicals ($\text{Bi}(\text{NO}_3)_3$, $\text{Ti}(\text{OC}_4\text{H}_9)_4$)
298,90 € - chemicals ($\text{Ga}(\text{NO}_3)_3$, TiO_2 , $\text{C}_2\text{H}_5\text{OH}$)
- For training of I. Stijepović at UDE 1.869,73 € was spent:
1.869,73 € - chemicals and alumina tubes
- For training of A. Duszová at IMCASCAR 503,99 € was spent:
51,33 € - respirators
279,61 € - chemicals poly(propyleneglycol-B-ethylene)glycol, o,o' - bis(2aminopropyl)polyethyleneglycol, codes: ED600, ED 900 and XTJ-502
5,59 € - postal charges
62,57 € - liquid nitrogen
95,42 € - accessories for ultrasonic bath
9,47 € - laboratory gloves
- For training of M. Kašiarova at IMSNCSR 284,70 € was spent:
166,60 € - consumables for magnetometer (helium etc)
100,00 € - library use
18,10 € - office supplies
- For training of P. Tatarko at IMSNCSR 251,43 € was spent:
119,21 € - office supplies
117,22 € - office supplies
15,00 € - library use
- For training of E. Bartoničková at IMSNCSR 81,06 € was spent:
66,06 € - office supplies
15,00 € - library use

The third Project year

- For training of V. Pouchly at FTUNS (held in the second year) **271,12 €** was spent:

- 241,72 € - sealants
- 29,40 € - 2 PTFE tubes
- For training of M. Maletin, P.Tatarko, M. Kasiarova, B. Mojić, M. Kachlik at IMSNCSR **2.770,37 €** was spent:
 - 83,17 € - library use
 - 86,95 € - library use
 - 91,50 € - office supplies
 - 36,89 € - office supplies
 - 14,25 € - office supplies
 - 32,70 € - office supplies
 - 91,00 € - supplies for chemistry laboratory
 - 104,70 € - office supplies
 - 50,33 € - supplies for chemistry laboratory
 - 52,02 € - supplies for chemistry laboratory
 - 48,36 € - supplies for chemistry laboratory
 - 1.615,00 € - supplies for chemistry laboratory
 - 36,37 € - laboratory supplies
 - 44,64 € - laboratory supplies
 - 47,73 € - laboratory supplies
 - 47,93 € - laboratory supplies
 - 32,70 € - office supplies
 - 105,00 € - supplies for chemistry laboratory
 - 101,40 € - supplies for chemistry laboratory
 - 47,73 € - laboratory supplies
- For training of V. Puchy at DCPBUT **999,54 €** was spent:
 - 999,54 € - chemicals – alumina powders
- For training of I. Stijepović, S. Ognajnović, B. Mojić and M. Kachlik at UDE **12.147,78 €** was spent:
 - 2.985,00 € - graphite dyes for sintering
 - 345,57 € - protective masks
 - 3.912,65 € - chemicals and gases: Gd-tetramethylheptanedionate, Zn-tetrabutyl, Li-tetramethylheptanedionate, Ti-diisopropoxide, K-acetate, DMSO Aceto, ethanol, isopropanol, butanol, Acetylacetone, Terpeneol, HNO₃, H₂SO₄, NaCl, H₂O₂, pH indicator stripes, Argon, Helium, Oxygen
 - 1.186,60 € - ceramics tubes
 - 1.269,35 € - glass tubes
 - 200,00 € - copper gaskets
 - 639,74 € - laboratory consumables: wiping tissues, gloves etc.
 - 34,80 € - shipping documents
 - 1.574,07 € - chemical supplies, tubes, gaskets
- For training of D. Drdlik at IMRSAS **587,00 €** was spent:
 - 241,50 € - dimond suspension
 - 345,50 € - dimond cutting wheel
- For training of V. Simendić and N. Vukić at IMRSAS **659,00 €** was spent:
 - 659,00 € - dimond suspension, liquid for polishing
- For training of I. Ristić and A. Duszova at IMCASC **1.934,36 €** was spent:
 - 40,17 € - Hexanediol, Hydroquinone
 - 717,03 € - Isosorbide, Trifluoromethanesulfonic acid, Dimethyl-Dioxane, Chloroform
 - 47,20 € - Nitrogen gas
 - 48,63 € - Dimethyl, Dioxane

6,52 € - Dichlormethan
66,18 € - Nitrogen liquid
442,45 € - MASS Rotor for NMR spectroscopy
40,29 € - Dioxane
66,18 € - Nitrogen liquid
66,18 € - Nitrogen liquid
198,55 € - Nitrogen liquid
95,71 € - Nitrogen gas
33,09 € - Nitrogen liquid
66,18 € - Nitrogen liquid

Overall budget WP1

Planned	144.300,00 €
Total payment for the 1 st year	13.721,35 € (9,51 %)
Total payment for the 2 nd year	26.299,91 € (18,23 %)
Total payment for the 3 rd year	76.061,89 € (52,71 %)
TOTAL	116.083,15 € (80,45 %)

5.3.2 Budget WP2 – Dissemination of information

Plan

1. Web site (design 1.000,00 €; installation 150,00 €; training personnel for updating 550,00 €). **Total 1.700,00 €.**
2. Flyer-1 (design 400,00 €; printing 200,00 € per 1000 peaces). **Total 600,00 €.**
3. Pamphlet (design 500,00 €; printing 400,00 € per 1000 peaces). **Total 900,00 €.**
4. Flyer-2 (design 400,00 €; printing 200,00 € per 1000 peaces). **Total 600,00 €.**

Realization

1. Web site (**699,85 €** was spent in the first, **500,00 €** in the second, **500,00 €** in the third Project year)
2. Flyer-1 (**700,00 €** was spent in the first Project year)
 - Designing **400,00 €**
 - Printing **300,00 €**
3. Pamphlet - design and printing of “Final report” in the form of pamphlet (**1.236,96 €** was spent in the third Project year)
4. Flyer-2 (**281,92 €** was spent in the second Project year)
 - Designing and printing of 200 peaces **258,60 €**
 - printed additional 50 peaces **23,32 €**

Overall budget WP2

Planned	3.800,00 €
Total payment for the 1 st year	1.399,85 € (36,84 %)
Total payment for the 2 nd year	781,92 € (20,58 %)
Total payment for the 3 rd year	1.736,96 € (45,71 %)
TOTAL	3.918,73 € (103,12 %)

5.3.3 Budget WP3 – Strengthening the human potential

Plan

1. Hiring of the first young researcher at FTUNS for 36 months (650,00 € per month). **Total 23.400,00 €.**
2. Hiring of the second young researcher at FTUNS for 36 months (650,00 € per month). **Total 23.400,00 €.**
3. Hiring of the experienced researcher coming back to FTUNS for 24 months (900,00 € per month). **Total 21.600,00 €.**
4. Hiring of the experienced senior researcher, from IMCASCAR, to FTUNS for 3 months (3.000,00 € per month). **Total 9.000,00 €.**

Realization

- 1a. Hiring of the first young scientist - Jelena Pavičević **17.219,40 €** (4.547,53 € was spent in the first, 8.009,11 € in the second and 4.662,76 € in the third Project year)
- 1b. Hiring of the first young scientist - Oskar Bear **3.900,01 €** (3.900,01 € was spent in the third Project year).
2. Hiring of the second young scientist - Ivan Stijepović **21.038,18 €** (4.545,30 € was spent in the first, 8.041,17 € was spent in the second and 8.451,71 € in the third Project year)
- 3a. Hiring of the experienced researcher - Mr. Milan Nikolić **13.499,98 €** (2.074,13 € was spent in the second and 11.425,85 € in the third Project year)
- 3b. Hiring of the experienced senior researcher - Dr. Konstantinos Giannakopoulos **6.103,35 €** (2.372,18 € in the second and 3.731,17 € in the third Project year)
4. Hiring of the experienced senior researcher from IMCASCAR (Dr. Milena Špírková, Dr. Adam Strachota and Dr. J. Brus), **(2.121,18 €** was spent in the second and **6.377,36 €** in the third Project year).
 - Dr. Milena Špírková was employed from 19th September to 9th October 2009 and got 2.121,18 €
 - Dr. Adam Strachota was employed from 11th April to 2nd May 2010 and got 2.079,94 €
 - Dr. Jiri Brus was employed from 19th March to 4th April 2011 and got 1.571,58 €
 - Dr. Milena Špírková was employed from 1th April to 28th April 2011 and got 2.725,84 €

Overall budget WP3

Planned	77.400,00 €
Total payment for the 1 st year	9.092,83 € (11,75 %)
Total payment for the 2 nd year	22.617,77 € (29,22 %)
Total payment for the 3 rd year	38.548,86 € (49,80 %)
TOTAL	70.259,46 € (90,78 %)

5.3.4 Budget WP4 – Upgrading research capacities

Plan

1. Malvern Zetasizer Nano ZS with MPT-2 Multi-purpose titration. **Total 91.256,00 €.**
2. GPC with corresponding equipment. **Total 36.104,00 €.**

Realization

1. Malvern Zetasizer Nano ZS, was paid **98.410,01 €** (in the first Project year)
2. Gel Performance Chromatography (GPC), Waters Breeze System, was paid **28.944,49 €** (in the first Project year) and for injector/diitung was paid **403,10 €** (in the third Project year)

Overall budget WP4

Planned	127.360,00 €
Total payment for the 1 st year	127.354,50 € (100,00 %)
Total payment for the 2 nd year	0,00 € (0,00 %)
Total payment for the 3 rd year	403,10 € (0,32 %)
TOTAL	127.757,60 € (100,31 %)

5.3.5 Budget WP5 –Workshops and training schools

Plan

1. The first Training school (renting of the room and laboratories, direct consumption for exercises, samples preparation, preparation of announcements, mailing, secretarial staff 3.700,00 €; costs for four invited lecturers 4.800,00 €; costs for staff from IMRSAS- Košice, directly involved in the training 1.200,00 €; financial support for six young participants 3.000,00 €). **Total 12.700,00 €.**
2. The first Workshop (renting of the workshop room, preparation of announcements, mailing, secretarial staff and preparation of proceedings 3.500,00 €; costs of four invited speakers 4.000,00 €; financial support for eight young participants 4.000,00 €). **Total 11.500,00 €.**
3. The main Conference (renting of the conference sales, costs of the Conference dinner and catering 6.500,00 €; preparation of announcements, mailing and secretarial staff, and preparation of proceedings 3.400,00 €; costs for six invited lecturers 7.200,00 €; financial support for five young participants 2.700,00 €. **Total 19.800,00 €.**
4. The second Training school (renting of the room and laboratories, direct consumption for exercises, samples preparation, preparation of announcements, mailing, secretarial staff 3.700,00 €; costs for four invited lecturers 4.800,00 €; costs for staff from DEMATEN-FTUNS, directly involved in the training 1.200,00 €; financial support for six young participants 3.000,00 €). **Total 12.700,00 €.**
5. The second Workshop (renting of the workshop room, preparation of announcements, mailing, secretarial staff and preparation of proceedings 3.500,00 €; costs for four invited speakers 4.000,00 €; financial support for eight young participants 4.000,00 €). **Total 11.500,00 €.**

Realization

1. The first Training school, “Microstructure and fracture-mechanical properties of nanostructured materials”, was held from 18th to 20th March 2009 at Institute of Materials Research, Slovak Academy of Science, Košice, Slovakia (**6.364,63 €** was spent in the first and **5.300,54 €** in the second)
 - Renting of rooms and labs – 2.700,00 €;
 - Personnel costs for secretary and organizers – 1.428,81 €;
 - Costs for staff from IMRSAS-Košice, directly involved in the training – 1.200,00 €;
 - Accommodation for young researchers – 615,05 €;
 - Breakfast and other meals for young researchers at student canteen – 167,50 €;
 - Benesova (Prague, Czech Republic) daily costs – 98,33 €;
 - Kobera (Prague, Czech Republic) daily costs – 97,45 €;
 - Strachota (Prague, Czech Republic) daily costs – 57,49 €.
 - Travelling costs for Strachota – 234,65 €;
 - Accommodation costs Švec – 44,22 €;
 - Dinner “Slavia” for all participants (Training school and PMB meeting) – 422,32 €;
 - Travelling costs for Bera – 75,26 €;
 - Travelling costs for Benesova – 85,31 €;
 - Travelling costs for Jašo – 76,36 €;
 - Travelling costs for Kobera – 85,27 €;
 - Travelling costs for Dimzovski – 76,87 €;
 - Travelling costs for Trunec, Jan, Skalova, Pouchly – 681,64 €;
 - Travelling costs for Brus – 518,64 €;
 - Author’s fee for lecture Dusza – 300,00 €;
 - Author’s fee for lecture Saksl – 300,00 €;

- Author's fee for lecture Strachota – 300,00 €;
 - Author's fee for lecture Budinski-Simendić – 300,00 €;
 - Author's fee for lecture Švec – 300,00 €;
 - Author's fee for lecture Špírková – 300,00 €;
 - Author's fee for lecture Hvizdoš – 300,00 €;
 - Author's fee for lecture Trunec – 300,00 €;
 - Author's fee for lecture Lofaj – 300,00 €;
 - Author's fee for lecture Brus – 300,00 €.
2. The second Workshop was held from 3rd to 5th June 2010 at Chalkidiki, Greece (**16.002,54 €** was spent in the third Project year)
- Salary for the secretary of the workshop – 650,00 €;
 - F. Lofaj, accommodation (hotel) – 340,00 €;
 - E. Csehova, accommodation (hotel) – 230,00 €;
 - V. Puchy, accommodation (hotel) – 230,00 €;
 - A. Duszova, accommodation (hotel) – 230,00 €;
 - P. Hvizdos, accommodation (hotel) – 240,00 €;
 - P. Tatarko, accommodation (hotel) – 230,00 €;
 - A. Hurd, accommodation (hotel) – 489,00 €;
 - A. Hurd, travel - plane ticket – 1.289,97 €;
 - A. Hurd, travel - shuttle – 167,00 €;
 - A. Hurd, local travel expenses and meals – 175,00 €;
 - M. Green, accommodation (hotel) – 340,00 €;
 - M. Green, travel - plane ticket – 1.546,65 €;
 - M. Green, local travel expenses and meals – 225,00 €;
 - J. Keddie, accommodation (hotel) – 255,00 €;
 - J. Keddie, travel - plane ticket – 449,71 €;
 - J. Keddie, travel -shuttle– 120,00 €;
 - J. Keddie, local travel expenses and meals – 175,00 €;
 - M. Rovezzi, accommodation (hotel) – 340,00 €;
 - M. Rovezzi, travel - plane ticket – 517,63 €;
 - M. Rovezzi, local travel expenses and meals – 150,00 €;
 - M. Katsikini, accommodation (hotel) – 170,00 €;
 - M. Katsikini, expenses for travel by car (gasoline) – 132,92 €;
 - M. Katsikini, local travel expenses and meals – 131,80 €;
 - E. Sarakinou, accommodation (hotel) – 115,00 €;
 - E. Sarakinou, expenses for travel by car (gasoline) – 82,75 €;
 - E. Sarakinou, local travel expenses and meals – 146,80 €;
 - D. Kechrakos, accommodation (hotel) – 340,00 €;
 - D. Kechrakos, travel - plane ticket – 110,18 €;
 - D. Kechrakos, local travel expenses and meals – 133,68 €;
 - E. Gamari, accommodation (hotel) – 340,00 €;
 - E. Gamari, travel - plane ticket – 110,18 €;
 - E. Gamari, local travel expenses and meals – 125,89 €;
 - K. Giannakopoulos, accommodation (hotel) – 430,00 €;
 - K. Giannakopoulos, travel - plane ticket – 110,18 €;
 - K. Giannakopoulos, local travel expenses and meals – 112,00 €;
 - D. Stamopoulos, accommodation (hotel) – 170,00 €;
 - D. Stamopoulos, travel - plane ticket, – 177,18 €;
 - D. Stamopoulos, local travel expenses and meals – 63,20 €;

- D. Drdlik, accommodation (hotel) – 340,00 €;
- D. Drdlik, travel - plane ticket – 140,00 €;
- K. Castkova, accommodation (hotel) – 340,00 €;
- M. Trunec, accommodation (hotel) – 340,00 €;
- B. Stojanovic, travel - plane ticket – 156,80 €;
- I. Stijepovic, expenses for travel by car (gasoline, tolls) – 255,00 €;
- I. Stijepovic, local travel expenses and meals – 40,20 €;
- O. Bera, expenses for travel by car (gasoline, tolls) – 255,00 €;
- O. Bera, local travel expenses and meals – 40,20 €;
- R. Rafal, accommodation (hotel) – 230,00 €;
- R. Rafal, travel - plane ticket – 168,90 €;
- R. Rafal, local travel expenses and meals – 150,00 €;
- Travel costs Spirkova – 491,04 €;
- B. Pilić and L. Nikolić accommodation – 224,21 €;
- O. Bera, I. Stijepović and M. Nikolić, accommodation – 300,30 €;
- Pavlicevic, Jovicić and Mojić, accommodation – 300,30 €;
- J. Budinski Simendić, accommodation – 125,75 €;
- V. Simendić, accommodation – 125,75 €;
- N. Vukić, accommodation – 125,75 €;
- Printing of conference proceedings – 461,62 €;

3/4. The main Conference (the first Workshop) and the Second Training School were organized from 3rd to 6th December 2009 in Novi Sad (**17.714,05 €** was spent in the second and **6.538,85 €** was spent in the third Project year)

- Printing of Conference proceedings – 279,96 €;
- Accommodation costs for E Markiewicz – 103,64 €;
- Accommodation costs Hotel Park (Bowen, Nanni, Mitoseriu, Bassano, Gerard, Brus, Shen, Dusza, Lofaj, Chodak) – 2.337,51 €;
- Accommodation costs Hotel Vojager (Moshopoulou, Giannakopoulos, Maca, Bartonickova, Častkova, Sedlakova, Špírková, Strachota, Andrejevska, Kašiarova, Henryk, Kukovecz, Depa, Galina) – 2.508,03 €.
- Travelling costs (Šafronova, Mitoseriu, Cherniakova) – 918,13 €;
- Travelling (train) costs (Špírková, Sedlakova, Strachota, Depa, Poreba, Benesova, Kobera) – 877,80 €;
- Travelling costs (plane ticket) - R. Djenadić – 111,67 €;
- Travelling costs (plane ticket) P. Bowen – 203,64 €;
- Travelling costs (plane ticket) K. Giannakopoulos – 227,18 €;
- Travelling costs (plane ticket) J. Brus – 270,12 €
- Travelling (plane) costs – E. Moshopoulou – 458,93 €.
- Travelling costs (car) Maca, Kukovecz, Dusza, Nanni, Chodak – 1.352,21 €;
- Travelling costs (transportation from airport - taxi) – 382,09 €;
- Travelling (train) costs, Markova-Veličkova – 47,20 €;
- Author's fee for lecturers (Bowen, Nanni, Mitoseriu, Giannakopoulos, Gerard, Shen, Chodak) – 2.100,00 €;
- Costs for evening party – 115,71€;
- Renting and settling conference/training rooms – 2.151,13 €;
- Costs for lunches – 1.627,69 €;
- Conference dinner – 522,38 €;
- Costs for staff for organization of the Conference – 540,00 €;

- Preparation of announcements – 571,55 €.
- Preparation of announcements – 7,48 €.
- Author's fee for J. Brus – 338,49 €;
- J. Gerard, travel (plane) costs – 316,82 €;
- J. Shen, travel (plane) costs – 478,18 €;
- Program of KUD Sonja Marinkovic – 98,96 €;
- Costs for staff administration – 1.300,00 €;
- Main Conference/Training school – rooms/laboratories TF – 3.010,00 €;
- Renting of Laboratories PMF XRD – 497,18 €;
- Renting of Laboratories PMF SEM – 499,22 €;

5 The third Workshop was held from 3rd to 5th March in Brno, Czech Republic (**14.374,69 €** was spent in the third Project year)

- Salaries for two secretaries – 498,85 €;
- Salaries for organizing team – 604,85 €;
- Salary for six invited lecturers – 1.808,51 €;
- Hotel Continental (invited lecturers) – 833,00 €;
- Hotel Palacky (young participants) – 1.427,06 €;
- Social evening – 1.608,53 €;
- Coffee breaks (4x) – 533,01 €;
- Two lunches – 261,71 €;
- Conference materials (office supplies, souvenirs, badges) – 56,77 € + 360,04 € + 15,79 €;
- Renting conference rooms – 1.239,16 €;
- Reimbursements for participants and invited lecturers – 2.403,20 €;
- Travel costs Spirkova – 18,24 €;
- Printing of posters for researchers from IMRSAS – 156,00 €;
- B. Mojić travel (plane Koln-Wiena) costs – 80,50 €;
- S. Ognjanović, travel (plane Koln-Wiena-Koln) costs – 115,83 €;
- Printing of conference proceedings – 554,64 €;
- J. Budinski Simendić, living costs – 102,00 €;
- V. Srdić, living costs – 136,00 €;
- B. Pilić, living costs – 102,00 €;
- I. Stijepović, living costs – 136,00 €;
- N. Vukić, living costs – 136,00 €;
- V. Simendić, living costs – 136,00 €;
- O. Bera, living costs – 136,00 €;
- B. Mojić, living costs – 119,00 €;
- I. Ristić, living costs – 136,00 €;
- Workshop Brno/Greece text preparation – 660,00 €;

Overall budget WP5

Planned	68.200,00 €
Total payment for the 1 st year	6.364,63 € (9,33 %)
Total payment for the 2 nd year	23.014,59 € (33,75 %)
Total payment for the 3 rd year	36.916,08 € (54,13 %)
TOTAL	66.295,30 € (97,21 %)

5.3.6 Budget WP6 – Project management

Plan

1. Organisation of the Kick-off meeting and three PMB meetings (4.000,00 € for the Kick-off meeting which will be held in Novi Sad, 4.000,00 € for the first PMB meeting which will be held in Brno, 5.000,00 € for the second PMB meeting which will be held in Košice and 5.000,00 € for the third PMB meeting which will be held in Athens). **Total 18.000,00 €.**
2. Salary for the project coordinator (in the same time the coordinator of WP6). Total **4.500,00 €.**
3. Salaries for WP-coordinators (for: FTUNS 2.700,00 €; IMSNCSR 1.800,00 €; IMRSAS 1.350,00 € and DCPBUT 1.500,00 €). **Total 7.350,00 €.**
4. Salary for secretaries (for: FTUNS 1.800,00 €; IMSNCSR 1.050,00 €; IMRSAS 750,00 € and DCPBUT 900,00 €). **Total 4.500,00 €.**
5. External Auditors which will conduct financial business of the project as well as the annual budget and annual financial report, i.e. certificate on financial statement. **Total 3.600,00 €.**
6. Costs for the project advisor for travelling costs and salary. **Total 8.500,00 €.**

Realization

1a. The Kick-off Meeting (the First PMB Meeting) was held on 23rd September 2008, at Faculty of Technology, University of Novi Sad, Serbia (**3.020,75 €**: was spent in the first Project year).

- K. Maca (Brno, Czech Republic) travelling expenses for car (Maca, Trunec, Špírková) – 234,73 €;
- K. Maca (Brno, Czech Republic) daily costs – 164,79 €;
- M. Trunec (Brno, Czech Republic) daily costs – 133,32 €;
- M. Špírková (Prague, Czech Republic) daily costs – 130,24 €;
- J. Dusza (Košice, Slovakia) travelling expenses for car – 228,00 €;
- E. Moshopoulou (Athens, Greece) travelling expenses for plain and taxi – 409,91 €;
- M. Perušić (Zvornik, Bosnia and Herzegovina) travelling expenses for car – 58,76 €;
- R. Djenadić (Duisburg, Germany) – no travelling costs (paid by home institution);
- Accommodation for six participants, ten nights (K. Maca, M. Trunec, M. Špírková, E. Moshopoulou, J. Dusza, M. Perušić) – 988,96 €;
- Welcome dinner (on 22nd September) – 227,96 €;
- Lunch (on 23rd September) – 100,98 €;
- Renting of room, coffee breaks – 343,10 €.

1b. The second PMB Meeting was held on 17th and 18th March 2009, at Institute of Materials Research, Slovak Academy of Science, Košice, Slovakia (**3.128.81 €** was spent in the first and **967,16 €** in the second Project year)

- Accommodation costs for four participants (K. Maca, M. Špírková, V. Srdić, J. Budinski) during the Training school in Košice – 2.347,30 €;
- M. Špírková (Prague, Czech Republic) daily costs – 114,37 €;
- Welcome dinner (on 17th March) – 188,00 €;
- Lunches and deserts – 149,14 €;
- Dinner (on 18th March) – 330,00 €
- PMB meeting – traveling costs Špírková – 285.25 €;
- PMB meeting – traveling costs Maca – 151.48 €;
- PMB meeting – traveling costs Srdić – 327,13 €
- PMB meeting – accommodation costs Pilić – 101,65 €;
- PMB meeting – accommodation costs Nikolić – 101,65 €.

1c. The fourth PMB Meeting was held on 5th June 2010, at Chalkidiki, Greece (**3.438,36 €** was spent in the third Project year):

- accommodation costs for K. Maca – 340,00 €
- travel, accommodation and living costs for J. Budinski Simendić – 295,20 €
- travel, accommodation and living costs for M. Winterer – 937,84 €
- travel, accommodation and living costs for M. Spirkova – 948,00 €
- travel, accommodation and living costs for E. Moshopoulou – 459,70 €
- travel, accommodation and living costs for V. Srdić – 457,62 €

1d. The fifth PMB Meeting was held on 8th September 2010, in Herceg Novi, Montenegro (**965,17 €** was spent in the third Project year):

- travel costs for K. Giannakopoulos – 96,00 €
- travel costs for V. Srdić – 164,23 €
- accommodation and living costs for K. Maca – 390,71 €
- travel costs (plane ticket) K. Maca – 307,38 €
- travel insurance K. Maca – 6,85 €

1e. The sixth PMB Meeting was held on 6th March 2011, in Brno, Czech Republic (**4.004,22 €** was spent in the third Project year):

- renting the meeting room – 520,44 €
- PMB dinner 02/03/11 – 131,08 €
- PMB dinner 04/03/11 – 96,93 €
- PMB lunch 05/03/11 – 82,22 €
- accommodation for all participants – 833,00 €
- travel costs for M. Winterer – 762,61 €
- travel costs for H. Hahn – 248,39 €
- travel costs for M. Spirkova – 190,88 €
- travel costs for R. Djenadic – 173,00 €
- travel costs for V. Srdić – 396,61 €
- travel costs for B. Pilić – 12,73 €
- travel costs for J. Dusza – 280,00 €
- travel costs for K. Giannakopoulos – 276,33 €

2. Salary for Project coordinator V. Srdić (Novi Sad, Serbia),

- in the first year **1.497,54 €** was spent
- in the second year **1.500,00 €** was spent
- in the third year **1.500,00 €** was spent

3. Salaries for coordinators of Work packages (**2.449,76 €** was spent in the first, **2.012,05 €** in the second and **2.929,50 €** in the third Project year)

- Salary for E.Moshopoulou (Athens, Greece) as the coordinator of WP1 in the first year – 599,68 €;
- Salary for E.Moshopoulou (Athens, Greece) as the coordinator of WP1 (for 2nd and 3rd years) paid in the third year – 1.195,62 €;
- Salary for J. Dusza (Košice, Slovakia) as the coordinator of WP2 in the first year – 450,00 €;
- Salary for J. Dusza (Košice, Slovakia) as the coordinator of WP2 in the second year – 450,00 €;
- Salary for J. Dusza (Košice, Slovakia) as the coordinator of WP2 in the third year – 450,00 €;
- Salary for Lj. Nikolić (Novi Sad, Serbia) as the coordinator of WP3 in the first year – 449,26 €;
- Salary for Lj. Nikolić (Novi Sad, Serbia) as the coordinator of WP3 in the second year – 450,00 €;
- Salary for Lj. Nikolić (Novi Sad, Serbia) as the coordinator of WP3 in the third year – 450,00 €;

- Salary for B. Pilić (Novi Sad, Serbia) as the coordinator of WP4 in the first year – 449,26 €;
- Salary for B. Pilić (Novi Sad, Serbia) as the coordinator of WP4 in the second year – 450,00 €;
- Salary for B. Pilić (Novi Sad, Serbia) as the coordinator of WP4 in the third year – 450,00 €;
- Salary for K. Maca (Brno, Czech Republic) as the coordinator of WP5 in the first year – 501,56 €.
- Salary for K. Maca (Brno, Czech Republic) as the coordinator of WP5 in the second year – 662,05 €.
- Salary for K. Maca (Brno, Czech Republic) as the coordinator of WP5 in the third year – 383,88 €.

4. Salaries for secretaries (**1.506,01 €** was spent in the first **1.150,00 €** in the second and **1.779,75 €** in the third Project year)

- Salary for secretary at FTUNS Novi Sad, Serbia in the first year – 605,06 €;
- Salary for secretary at FTUNS Novi Sad, Serbia in the second year – 600,00 €;
- Salary for secretary at FTUNS Novi Sad, Serbia in the third year – 600,00 €;
- Salary for secretary at IMSNCSR Athens, Greece in the first year – 350,01 €;
- Salary for secretary at IMSNCSR Athens, Greece (for 2nd and 3rd years) paid in the third year – 700,00 €;
- Salary for secretary at IMRSAS Košice, Slovakia in the first year – 250,00 €;
- Salary for secretary at IMRSAS Košice, Slovakia in the second year – 250,00 €;
- Salary for secretary at IMRSAS Košice, Slovakia in the third year – 250,00 €;
- Salary for secretary at DCPBUT Brno, Czech Republic in the first year – 300,94 €.
- Salary for secretary at DCPBUT Brno, Czech Republic in the second year – 300,00 €.
- Salary for secretary at DCPBUT Brno, Czech Republic in the third year – 229,75 €.

5. External Auditors (**3.625,53 €** was spent in the third Project year)

- External Auditors was paid in the third year – 3.085,53 €;
- Preparation all finances for external audit – S. Vajc – 540,00 €.

6. Costs for the project advisor (**5.213,94 €** was spent in the third Project year)

- Salary for Prof. H. Hahn - the project advisor – 2.257,33 €;
- Travel costs Prof. H. Hahn – PMB meeting Herceg Novi – 486,81 €;
- Accommodation costs Prof. H. Hahn – PMB meeting Herceg Novi – 212,80 €;
- Salary for Prof. H. Hahn - the project advisor – 2.257,00 €;

Overall budget WP6

Planned	46.450,00 €
Total payment for the 1 st year	11.602,87 € (24,98 %)
Total payment for the 2 nd year	5.629,21 € (12,12 %)
Total payment for the 3 rd year	23.456,47 € (50,50 %)
TOTAL	40.688,55 € (87,60 %)

TOTAL COSTS IN THREE PROJECT YEARS
+ Overhead

425.002,79 €
29.750,20 €

5.3.7 Budget – Tables

WP – 1

Activity	Beneficiary	Proposed Budget	Realized Budget
WP1-1			
	FTUNS	16.400,00 €	18.769,20 €
		16.400,00 €	18.769,20 €
WP1-2			
	FTUNS	15.000,00 €	13.316,00 €
	IMRSAS	3.000,00 €	3.979,49 €
	DCPBUT	3.000,00 €	3.677,84 €
		21.000,0 €	20.973,33 €
WP1-3			
	FTUNS	8.500,00 €	7.602,37 €
	IMRSAS	5.100,00 €	4.995,58 €
	DCPBUT	5.100,00 €	3.370,25 €
		18.700,00 €	15.968,20 €
WP1-4			
	UDE	2.600,00 €	-
	IMCASC	2.600,00 €	2.291,49 €
	IMSNCSR	2.600,00 €	-
	IMRSAS	2.600,00 €	2.386,58 €
	DCPBUT	2.600,00 €	-
		13.000,00 €	4.678,07 €
WP1-5			
	IMCASC	2.000,00 €	-
	IMSNCSR	2.000,00 €	-
	IMRSAS	2.000,00 €	999,32 €
	DCPBUT	2.000,00 €	1.943,77 €
		8.000,0 €	2.943,09 €
WP1-6			
	FTUNS	5.000,00 €	4.791,55 €
		5.000,00 €	4.791,55 €
WP1-7			
	UDE	3.600,00 €	-
	IMCASC	4.800,00 €	3.828,52 €
	IMSNCSR	4.800,00 €	3.183,00 €
	IMRSAS	6.000,00 €	6.499,16 €
	DCPBUT	6.000,00 €	3.943,76 €
		25.200,00 €	17.454,44 €
WP1-8			
	FTUNS	-	1.017,88 €
	UDE	16.000,00 €	14.017,51 €
	IMCASC	6.000,00 €	6.023,01 €
	IMSNCSR	6.000,00 €	4.201,08 €
	IMRSAS	5.000,00 €	1.246,00 €
	DCPBUT	4.000,00 €	3.999,79 €
		37.000,00 €	30.505,27 €
TOTAL WP1		144.300,00 €	116.083,15 €

WP – 2

Activity	Beneficiary	Proposed Budget	Realized Budget
WP2-1			
	FTUNS	1.700,00 €	1.699,85 €
WP2-2			
	IMRSAS	600,00 €	700,00 €
WP2-3			
	FTUNS		1.236,96 €
	IMRSAS	900,00 €	-
WP2-4			
	FTUNS	600,00 €	281,92 €
TOTAL WP2		3.800,00 €	3.918,73 €

WP – 3

Activity	Beneficiary	Proposed Budget	Realized Budget
WP3-1			
	FTUNS	23.400,00 €	21.119,41 €
WP3-2			
	FTUNS	23.400,00 €	21.038,18 €
WP2-3			
	FTUNS	21.600,00 €	19.603,33 €
WP2-4			
	IMCASC	9.000,00 €	8.498,54 €
TOTAL WP3		77.400,00 €	70.259,46 €

WP – 4

Activity	Beneficiary	Proposed Budget	Realized Budget
WP4-1			
	FTUNS	91.256,00 €	98.410,01 €
WP4-2			
	FTUNS	36.104,00 €	29.347,59 €
TOTAL WP4		127.360,00 €	127.757,60 €

WP – 5

Activity	Beneficiary	Proposed Budget	Realized Budget
WP5			
	FTUNS	32.500,00 €	28.466,55 €
	IMCASC		762,55 €
	IMSNCSR	11.500,00 €	13.847,82 €
	IMRSAS	12.700,00 €	11.567,90 €
	DCPBUT	11.500,00 €	11.650,48 €
TOTAL WP5		68.200,00 €	66.295,30 €

WP – 6

Activity	Beneficiary	Proposed Budget	Realized Budget
WP6-1			
	FTUNS	4.000,00 €	3.055,93 €
	IMCASC		244,61 €
	IMSNCSR	5.000,00 €	3.438,36 €
	IMRSAS	5.000,00 €	3.778,30 €
	DCPBUT	4.000,00 €	5.007,27 €
		18.000,00 €	15.524,47 €
WP6-2			
	FTUNS	4.500,00 €	4.497,54 €
		4.500,00 €	4.497,54 €
WP6-3			
	FTUNS	2.700,00 €	2.698,52 €
	IMSNCSR	1.800,00 €	1.795,30 €
	IMRSAS	1.350,00 €	1.350,00 €
	DCPBUT	1.500,00 €	1.547,49 €
		7.350,00 €	7.391,31 €
WP6-4			
	FTUNS	1.800,00 €	1.805,06 €
	IMSNCSR	1.050,00 €	1.050,01 €
	IMRSAS	750,00 €	750,00 €
	DCPBUT	900,00 €	830,69 €
		4.500,00 €	4.435,76 €
WP6-5			
	FTUNS	3.600,00 €	3.625,53 €
		3.600,00 €	3.625,53 €
WP6-6			
	FTUNS	8.500,00 €	5.213,94 €
		8.500,00 €	5.213,94 €
TOTAL WP6		46.450,00 €	40.688,55 €

TOTAL
Overhead

425.002,79 €
29.750.20 €

5.3.8 Budget – Corrections in the final financial report

In the report for the second Project year for the DCPBUT mistakes were made due to wrong calculation of exchange ratio and the expenses were overrated by 96,21 €. The corrections are the following (the correct values are indicated in red):

- WP1 - One-month training, V. Pouchly at FTUNS
 - Travel, accommodation and living costs for V. Pouchly (Brno, Czech Republic) – **1.711,94 €** (instead of 1.748,46 €);
- WP1 - One-month training, E. Bartoničková at IMSNCSR
 - Travel expenses (plain ticket) for E. Bartoničková (Brno, Czech Republic) – **264,43 €** (instead of 268,17 €);
 - Accommodation and living costs for E. Bartoničková (Brno, Czech Republic) – **967,49 €** (instead of 981,20 €);
- WP1 - One-week visit, V. Jan at IMRSAS
 - Travel, accommodation and living costs for V. Jan (Brno, Czech Republic) – **174,63 €** (instead of 176,67 €);
- WP1 - One-week visit, K. Maca at FTUNS
 - Travel, accommodation and living costs for K. Maca (Brno, Czech Republic) – **845,32 €** (instead of 864,10 €);
- WP1 - Deliverables for D. Avramov
 - For training of D. Avramov at DCPBUT **1.000,00 €** (instead of 999,54 €) was spent for chemicals - Taimicron alumina powder;
- WP6 - Salaries for WP-coordinator
 - Salary for K. Maca (Brno, Czech Republic) as the coordinator of WP5 in the second year was **662,05 €** (instead of 683,93 €).

In the report for the first Project year for the FTUNS few mistakes were made. The corrections are the following (the correct values are indicated in red):

- WP1 - Two-month training, I. Ristić – IMCASCAR (*costs were not paid from FP7 budget*):
 - Travel costs (bus ticket) for I. Ristić (Novi Sad, Serbia) – **0,00 €** (instead of 62,82 €);
- WP1 - One-week visit, B. Pilić – DCPBUT (*mistake in calculation*)
 - Travel, accommodation and living costs for B. Pilić (Novi Sad, Serbia) – **825,63 €** (instead of 818,61 €);
- WP1 - One-week visit, Lj. Nikolić – DCPBUT (*costs were not included in the report for the first project year*)
 - Travel, accommodation and living costs for L. Nikolić (Novi Sad, Serbia) – **508,00 €** (instead of 0,00 €);
- WP1 - One-week visit, K. Giannakopoulos – FTUNS (*mistake in calculation*)
 - Travel costs (plane ticket Athens-Belgrade Larnaka) K.Giannakopoulos **298,28 €** (instead of 296,72 €).

In the report for the second Project year for the FTUNS few mistakes were made. The corrections are the following:

- WP3 - Hiring of the first young scientist (*mistake in calculation*)
 - for Jelena Pavičević **8.009,11 €** (instead of **8.142,80 €**) was spent in the second Project year
- WP3 - Hiring of the first young scientist (*mistake in calculation*)
 - for Ivan Stijepović **8.041,17 €** (instead of **8.154,41 €**) was spent in the second Project year
- WP3 - Hiring of the first young scientist (*mistake in calculation*)

- for Mr. Milan Nikolić **2.074,13 €** (instead of **1.813,71 €**) was spent in the second Project year
- WP5 - The main Conference (the first Workshop) and the Second Training School (*mistake in calculation*)
- Author's fee for lecturers (Bowen, Nanni, Mitoseriu, Giannakopoulos, Gerard, Shen, Chodak) – **2.100,00 €** (instead of 2.093,72 €).

5.3.9 Budget – Independent report of factual findings



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Independent Report of Factual Findings on costs claimed under a Grant Agreement financed under the Seventh Research Framework Programme (FP7)

Prof. Dr. Zoltan Zavargo
Dean

Tehnološki fakultet Novi Sad
Bulevar Cara Lazara broj 1
Novi Sad, Serbia
1 July 2011

In accordance with our contract dated 31 March 2011 with Tehnološki fakultet Novi Sad ("the Beneficiary") we provide our Independent Report of Factual Findings ("the Report"), as specified below.

Objective

We, BDO d.o.o., Beograd, established in Knez Mihailova 10/III, Belgrade, Serbia represented for signature of this Report by Igor Radmanovic have performed agreed-upon procedures regarding the cost declared in the Financial Statements of Tehnološki fakultet, Novi Sad hereinafter referred to as the Beneficiary, to which this Report is attached, and which is to be presented to the European Commission under grant agreement number 204953, FP7-REGPOT-2007-3 for the period from 1 May 2008 to 30 April 2011. This engagement involved performing certain specified procedures, the results of which the European Commission uses to draw conclusions as to the eligibility of the costs claimed.

Scope of Work

Our engagement was carried out in accordance with:

- The terms of reference appended to this Report and
- International Standard on Related Services ('ISRS') 4400 *Engagements to perform Agreed-upon Procedures regarding Financial Information* as promulgated by the International Federation of Accountants ('IFAC');
- The *Code of Ethics for Professional Accountants* issued by the IFAC. Although ISRS 4400 provides that independence is not a requirement for agreed-upon procedures engagements, the European Commission requires that the Auditor also complies with the independence requirements of the *Code of Ethics for Professional Accountants*;

The scope of these agreed upon procedures has been determined solely by the European Commission and the procedures were performed solely to assist the European Commission in evaluating whether the costs claimed by the Beneficiary in the accompanying Financial Statement has been claimed in accordance with the Grant Agreement. The Auditor is not responsible for the suitability and appropriateness of these procedures.



Independent Report of Factual Findings on costs claimed under a Grant Agreement financed under the Seventh Research Framework Programme (FP7) (Continued)

Scope of Work (Continued)

Because the procedures performed by us did not constitute either an audit or a review made in accordance with International Standards on Auditing or International Standards on Review Engagements, we do not express any assurance on the Financial Statements.

Had we performed additional procedures or had we performed an audit or review of the Financial Statements of the Beneficiary in accordance with International Standards on Auditing, other matters might have come to our attention that would have been reported to you.

Sources of Information

The Report sets out information provided to us by the management of the Beneficiary in response to specific questions or as obtained and extracted from the Beneficiary's information and accounting systems.

Factual Findings

Except as indicated below, no exceptions were noted.

Exceptions

As stated in Form C for the period from 1 May 2008 to 30 April 2009, other indirect costs totalling EUR 135,994.21, out of which amount of EUR 127,355 relate to Work package 4 named "Upgrading capacity research". This amount relate to purchasing of Zetasizer Nano ZS, with Multi-purpose titration and Gel Performance Chromatography (GPC)-Waters Breeze System. According to procedures performed, we found that total expenditure for aforementioned purchases amounting EUR 129,046. Difference between reported expenses and amount actually paid, in the amount of EUR 1,691, appeared as a result of different exchange rate applied.

Furthermore, as stated in Form C for the period from 1 May 2010 to 30 April 2011, other indirect costs totalling EUR 39,882.41, out of which amount of EUR 403 relate to Work package 4 named "Upgrading capacity research". This amount relate to service expenses for Gel Performance Chromatography (injector/diitung), which originally had not been planned for the Project named: „Reinforcement of Research Potential of the Department of Materials Engineering in the Field of Processing and Characterization of Nanostructured Materials“.

As stated in Form C for the period from 1 May 2008 to 30 April 2009, total costs amounting EUR 178,546. The Beneficiary made certain corrections after the end of the project in the amount of EUR 454 for which the total costs reported in the first year are understated. Also, as stated in Form C for the period from 1 May 2009 to 30 April 2010, total costs amounting EUR 65,428. The Beneficiary made certain corrections after the end of the project in the amount of EUR 20 for which the total costs reported in the first year are understated. The Beneficiary informed European Commission about the corrections made in form of special written report which is not part of these financial statements.



**Independent Report of Factual Findings on costs claimed under a Grant Agreement
financed under the Seventh Research Framework Programme (FP7) (Continued)**

Use of this Report

This Report is solely for the purpose set forth in the above objective.

This Report is prepared solely for the confidential use of the Beneficiary and the European Commission and solely for the purpose of submission to the European Commission in connection with the requirements as set out in Article II.4.4 of the Grant Agreement. This Report may not be relied upon by the Beneficiary or by the European Commission for any other purpose, nor may it be distributed to any other parties. The European Commission may only disclose this Report to others who have regulatory rights of access to it, in particular the European Anti Fraud Office and the European Court of Auditors.

This Report relates only to the Financial Statements specified above and does not extend to any other financial statements of the Beneficiary.

No conflict of interest exists between the Auditor and the Beneficiary in establishing this Report. The fee paid to the Auditor for providing the Report was € 3,085.

We look forward to discussing our Report with you and would be pleased to provide any further information or assistance which may be required.

BDO d.o.o., Beograd

1 July 2011


Igor Radmanovic, Partner



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6. Explanation of the use of the resources

Detailed description was given in Progress Reports for the first, second and third project year.

7. Financial statement- Form C and summary financial report

All Form Cs for all three years were given in Progress Reports for the first, second and third project year.

8 Certificates

Beneficiary	Organisation short name	Certificate on the financial statements provided? yes / no	Any useful comment, in particular if a certificate is not provided
1	FTUNS	No	Expenditure threshold not reached
2	UDE	No	Expenditure threshold not reached
3	IMCASC	No	Expenditure threshold not reached
4	IMSNCSR	No	Expenditure threshold not reached
5	IMRSAS	No	Expenditure threshold not reached
6	DCPBUT	No	Expenditure threshold not reached