Tempus Project University of Kragujevac
WBCVMnet
WBC Virtual Manufacturing Network
Fostering an Integration of the Knowledge Triangle

Steering Committee meeting

21th October 2011, Belgrade

WBC-VMnet Project

Partner presentation

Živko Babić, University of Banja Luka

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Outline

- Overall achievements, project implementation timeframe
- Key project results, per Outcomes
- Sistematization of knowledge
- Vocational trainings implementation
- Proposals for PPP implementation (at EU and WBC)
- Proposals for IFP implementation
- Conclusions

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❖Overall achievements

During the period after forth Steering Committee, project team at the University of Banja Luka has achieved the following results (in accordance with the requirements of the project):

- Continued process of setting up Collaborative Training Center Banja Luka
- Bring new VMnet members in network
- Participate to the Workshop in Podgorica, May 2011
- Participate to conference KODIP 2011 in Herceg Novi, June 2011 with paper ''Simulation of profiled bending by rollers''
- Creation of the Programs for specialized vocational trainings:
  - ''Fundamentals of noise, vibration and human vibration''
  - ''Machines, tools and methods of machining''

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- Prepare of teaching material for the developed vocational trainings
- Dissemination activities and translate Promotional materials
- Site disign of Collaborative Training Center (CTC) Banja Luka
- The organization the course of Fundamentals of noise, vibration and human vibration
- The organization the course of NC programming and basics of CAM modeling
- Preparation and realization the PPP in BiH
- Preparation and realization the PPP in EU
- Preparation and realization the IFP

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❖Key project results, per Outcomes

In the period from April 2011 to September 2011:

OUTCOME 1: Collaborative Training Center Banja Luka (CTC) is established...

- Prepare of teaching material for the Software simufact.forming 10
- Creation of the Programs for specialized vocational trainings:
  ''Fundamentals of noise, vibration and human vibration''
- Prepare of teaching material for the developed vocational trainings
- The realization of course ''NC programming and the basics of CAM modeling'' for student on PPP

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OUTCOME 2.2: **Bring new VMnet members and experts for multidisciplinary approach**

- Constantly looking for new members of VMnet network
- Result: more new VMnet members from BiH (20 new members)

OUTCOME 2.3: Update existing systematization knowledge e-base with new topics:

– provided materials from the following areas:
''Fundamentals of noise, vibration and human vibration'' (*Dr Valentina Golubovic Bugarski*)
''Machines, tools and methods of machining'' (*Dr Gordana Lakić Globočki, mr Stevo Borojević, Branislav Sredanović*)

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OUTCOME 3: Model for university-enterprise cooperation

Distribution the brochure WBC Regional model of university enterprise cooperation on the local environment

- Sending of printed brochures (Universities, Faculties and other institutions)

OUTCOME 3.4: Case studies – benchmarking best practice:

- Implementation case study in enterprise K&C, Trn, Banja Luka with topic: ''Simulation of profiled bending by rollers''

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OUTCOME 5: Programme of vocational training, industrial fellowship and student practical placement developed...

Promotion project material Student Practical Placement programme on the SME enerprises

Student Practical Placement Programme (PPP)
- presented at the Faculty and the University
- formed the base of the company for the PPP program
- set up on the web of CTC Banja Luka

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❖Vocational trainings implementation

- Training of CAD was realized
- The realization of course ‘’NC programming and the basics of CAM modeling’’ for student on PPP
- Creation of the Programs for specialized vocational trainings: ’’Fundamentals of noise, vibration and human vibration’’

Trainees in CTC Banja Luka

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❖Develop and conduct Practical Placement Programme for students (at EU and WBC)

- Student Aleksandar Kecman of Faculty of Mechanical Engineering of Banja Luka visited EU institution (Motoman ROBOTEC Ltd. Ribnica, Slovenia) in 1 month period september-october 2011, for some of following research themes:
  - Presentation of robotic cells
  - Design and production of technical documentation
  - Presentation of the SKS and Fronius welding equipment

- Student Branislav Sredanović going to visit EU partner (University of Ljubljana) 30 days, in fields of:
  - Establishing a universal machinability of materials processing by cutting

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- Student Milan Radenkovic with of Faculty of mechanical engineering of Kragujevac implemented the practice:

15 days in CTC Banja Luka

15 days in SME enterprise TRIBEST Banja Luka

- Student Nikola Vitulic with of Faculty of mechanical engineering of Rijeka implemented the practice:

30 days in CTC Banja Luka in the study of software for modeling and simulation of manufacturing processes ''Technomatik Plant Simulation''

Develop and conduct Practical Placement Programme for students (in BiH)

− In PPP process on Faculty of Mechanical Enginering Banja Luka are over 15 students (with project plan)

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Student on the prakse

Živko Babić

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❖Proposals for IFP implementation

CTC Banja Luka can offer partnership to SMEs (TRI BEST, Banja Luka and R&D, Trn, Laktaši) in following fields:

-Application of CAD/CAM technology (SolidWorks, Catia) the development of lifts and machinery for chopping wood

- Process simulation of profiled bending by rollers

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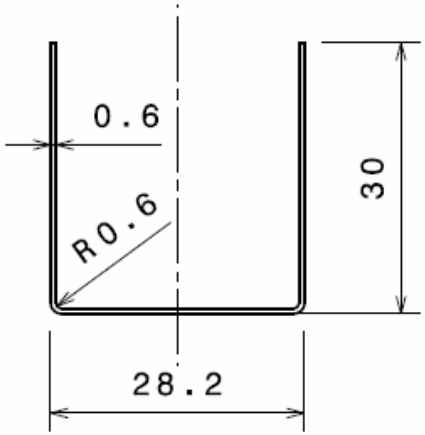

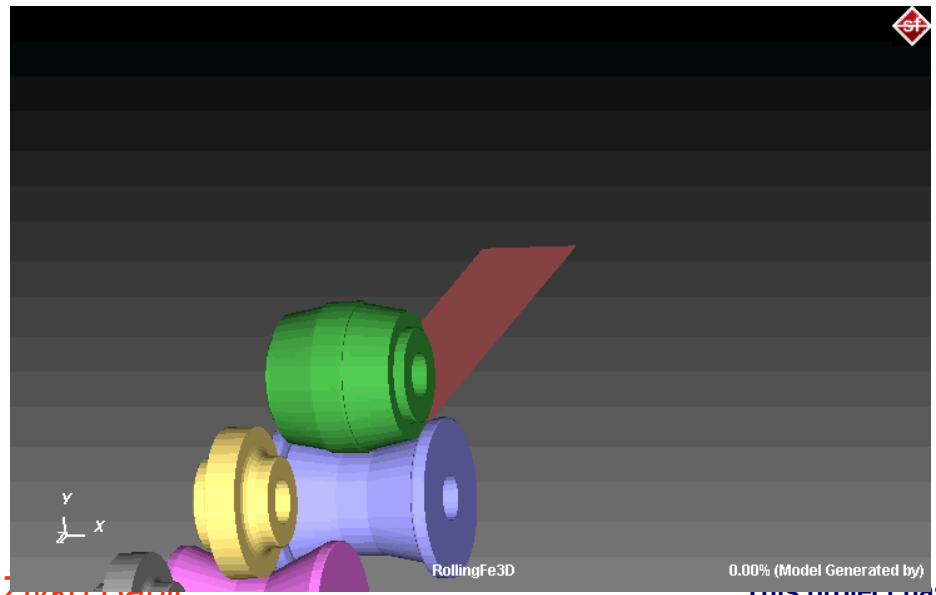

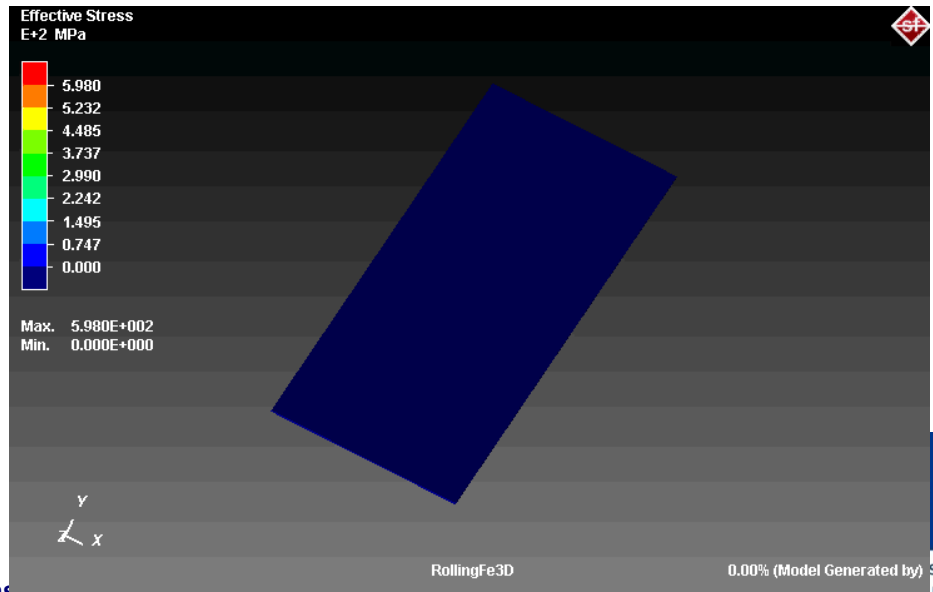

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OUTCOME 6: Dissemination

Website of the Collaborative Training Center (CTC) Banja Luka was created and updated (www.ctcunibl.rs).

The Engineering Club will influence the policy of the society and the status of engineers

Živko Babić

Conclusions

- Activities of the University of Banja Luka on the WBC-Vmnet project were performed mainly in accordance with the requirements of the project

- All requirements of the project are mainly carried out in accordance with the plan implementation

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Thank you for Your attention!

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