## SEMINAR: Chemical Analysis of Polymeric Materials Using Infrared Spectroscopy Monday, 24 October 2011 Within the European project FP7-REGPOT-2008-1-229801: "Unlocking the Croatian Textile Potentials" (T-Pot) and organised by Textile Science Research Center (TSRC) Prof. C. Q. Yang fromThe University of Georgia, will hold a lecture entitled: "Chemical Analysis of Polymeric Materials Using Infrared Spectroscopy" Lecture will be held on November 2nd, 2011 at 10AM at the Faculty of Textile Technology, lecture hall 301 (third floor), Prilaz baruna Filipovi a 28a, Zagreb. Second part will be the practical workshop organized at the premises of Textile Science Research Centre at Savska 16/9. Prof. Yang will be awailable for the guestions/answers dealing with spectroscopy, thermogravimetric analysis or combustion calorimetry. FT-IR, TGA, DSC and MCC devices are awailable for the measurements during the workshop. Workshop is open for all interested scientists/engineers, both from the academic and industrial sectors. For organisational reasons, we would kindly ask you to confirm your attendance with filling the Application form for one or both parts of the workshop ant its submition at the following e-mail address: zorana.kovacevic@ttf.hr Materials for download: 1. Application form

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2. Invitation flyer

3. Prof. C.Q.Yang curriculum vitae

By clicking on "Read more" you will find Lecture outline for this seminar and a complete report (doc) of the seminar was held, and the lecture presentation (pdf) from Professor C. Q. Yang.
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Prof. Charles Yang, Ph.D.
The University of Georgia
Dawson Hall,
Athens, GA 30602
SEMINAR: Chemical Analysis of Polymeric Materials Using Infrared Spectroscopy
Lecture outline:
Part I. Basic Theory of Infrared Spectroscopy
A. Molecular vibrational energy, infrared spectroscopy and its selection rules
B. The Interpretation of Infrared spectra: group frequency and peak assignment
C. Dispersive versus Fourier transform infrared spectroscopy
D. The sampling techniques for solid samples
Part II. Applications of FT-IR spectroscopy to polymers: qualitative analysis

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A. FT-IR qualitative analysis applied to textile finishing
B. FT-IR qualitative analysis applied to textile Polymers
Part III. Applications of FT-IR spectroscopy to polymer: quantitative analysis
A. Beer's law and quantative analysis
B. FT-IR quantitative analysis applied to textile finishing
After the seminar we are able to present and offer to download complete report(doc) of the seminar was held, and the lecture presentation(pdf) from Professor C. Q. Yang :
1. Lecture presentation (pdf, 4Mb)
2. Report seminar prof. Yang (doc, 12 Mb)

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