1st Summer School

Programme Stereology Course

7th - 9th September 2015 Vilnius, Lithuania

	MONDAY 7th	TUESDAY 8th	WEDNESDAY 9th
09:00 - 10:00	Registration	Lecture: Length and Surface, IUR Exercise: Length estimation	Lecture: Vertical sections Exercise: Surface from vertical sections bananametry
10:00 - 11:00	Lecture: Definition of probes, sampling and basic statistics Lecture: Volume estimation, Cavalieri estimator	Solving Practical Problems	Solving Practical Problems
11:15 - 13:00	Exercise: Volume estimation Lecture: The fractionator principle (systematic sampling)	Lecture: Estimation via ratios, multilevel sampling design Lecture: How many animals, blocks, sections?	Lecture: Sampling and Sizing of particles Exercise: The nucleator
14:00-15:30	Lecture: The fractionator principle (systematic sampling) Exercise: The fractionator	Demonstration of computer-assisted stereology Lecture: More dissector sampling	
15:45-18:00	Lecture: The dissector, counting and sampling in 3D Exercise: Number estimation	Lecture: Dissector including connectivity Exercise: Connectivity Lecture: Tissue deformation, slicing, sectioning, tools and gadgets	
	Solving Practical Problems	Solving Practical Problems	

Participants please bring:
A calculator with square root function and a metric ruler. A pair of scissors and a sharp kitchen paring knife will be provided. Your computer and images from your own studies. Please, add the practical problem you are dealing with in the registration form.

FACULTY OF TEACHERS

Johnnie Andersen
johnnie.andersen@clin.au.dk

Jens Randel Nyengaard
jrnyengaard@clin.au.dk

Stereology and Electron Microscopy Lab. Aarhus University Hospital NBG
Building 10G, Nørrebrogade 44 - DK - 8000 Aarhus C - Denmark

AARHUS UNIVERSITY

Allan Rasmusson
Allan.Rasmusson@vpc.lt

Vilniaus universiteto ligoninės
Santariškių klinikos
Santariškių G 2 - Vilnius 08661 Lithuania

Vilniaus universiteto ligoninės
SANTARIŠKIŲ KLINIKOS

1st Summer School

Programme Image Processing Course

9th - 11th September 2015 Vilnius, Lithuania

	WEDNESDAY 9th	THURSDAY 10th	FRIDAY 11th
09:00 - 11:00		Lecture: Image Segmentation Exercise: Stain Density Analysis	Lecture: Further Aspects Exercise: Discussion and Conclusions
11:15 - 13:00	Registration	Lecture: Contour and Region Detection Exercise: Region of Interest Labelling and Properties	
14:00-15:30	Lecture: Introduction to Microscopic Digital Image Lecture:Preprocessing and Color Spaces	Exercise: Region of Interest Detection Exercise: Region of Interest Characterization	
15:45-18:00	Exercise: Color Deconvolution, Quantification and Standarization Solving Practical Problems	Demonstrations: Vessel Characterization Gala Dinner	*Participants please bring your computer and images from your own studies. Please, add the practical problem you are dealing with in the registration form.*

FACULTY OF TEACHERS

Gloria Bueno
gloria.bueno@uclm.es

Ismael Serrano
ismael.serrano@uclm.es

M. Milagro Fernandez Carrobles
MMilagro.Fernandez@uclm.es

VISILAB - Grupo de Visión y Sistemas Inteligentes - E. T. S. Ingenieros Industriales
Universidad de Castilla-La Mancha
Avda. Camilo José Cela, 3 · 13071 Ciudad Real , Spain

M. Emre Celebi
ecelebi@lsus.edu
Dept. of Computer Science
Louisiana State University
Technology Center 248
One University Place. Shreveport, LA 71115 USA