Website update – ESR-ER presentation template

Marie-Curie Fellow

Name: Jegenyés

First Name: Nikoletta

Age: 30

Nationality: hungarian

Position (ER/ESR): ER

Host institution: Université Claude Bernard Lyon 1

Contract duration: 22 months

Short Education Background (10 lines max.)

Education and experiences:

• 1997-2002: mathematics and physics teacher /*University of Szeged, Hungary/*
• 1999-2004: physicist /*University of Szeged, Hungary/*
• 2003-2006: Ph.D. student */Optics and Quantum Electronics Department, University of Szeged, Hungary/*
• 2007: Scientific administrator of the Hungarian OTKA Foundation project /*Hungary/*
• 2008: researcher at the Hungarian Academy of Sciences in Budapest, Hungary

Fellowships and study tours:

• 2002-2003: 2 months training at Johannes Kepler University, Linz, Austria,
• 03/2004-01/2005: Marie Curie Fellowship (FO.R.T.H., I.E.S.L., Crete)
• 04/2006-07/2006: Solid Optics and Physics Group, LOA, Palaiseau, France.

Research focus and main activities carried out in the scope of the project (10 lines max.)

My interest and research activities are mainly associated with the investigation of the surface morphology of 3C-SiC layers deposited by Chemical Vapour Deposition (CVD) method on VLS seeds. By changing the experimental parameters the coarsening of the original 3C-SiC seed could be observed. From the study of the literature of this phenomenon I could obtain the main experimental parameters which impact on the process. The effect of these parameters was studied, and the results will be presented on the HeteroSiC conference.
Since my involvement with the MANSiC project I was trained in the operation of a CVD system, and the preparation of samples for the growth process. I got an insight view in the actuation of the vapour-liquid-solid (VLS) equipment, low-temperature photoluminescence (LTPL) technique. I was trained on the measurements with Nomarski microscope and infrared reflectance.

Publications (please specify when the publication has been issued in the scope of the MANSiC project)