

Tatiana BUDTOVA

Date of birth: 23 June 1963

Business address:

Ecole Nationale Supérieure des Mines de Paris (ENSMP or MINES ParisTech), UMR CNRS 7635
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PROFESSIONAL EXPERIENCE

- From 01.09.2004 to present **from April 2015 Research director (“directeur de recherche”), from October 2008 senior researcher (“maître de recherche”), from 2004 researcher (“chargé de recherche”) in CEMEF, MINES ParisTech**
From 2015: group leader “Bio-based polymers and composites”
Research areas: physical chemistry of polymers (gels and aerogels, polymer solutions, mixtures and suspensions, cellulose, starch, rheology and rheo-optics)
Responsibilities: scientific direction and management of research projects (European, academic and industrial), supervising PhD, post-master, master and post-docs.
- From January 2016 to 2021 **Finland Distinguished Professor**, Aalto university, Finland (part time)
- From September 2015 to present **Editor** in Carbohydrate Polymers journal (Elsevier), impact factor: 6
- From September 2008 to 2016 **Holder of the Industrial Chair in Bioplastics** : Chair in MINES ParisTech sponsored by a consortium of five French companies.
- From 1997 to 01.09.2004 **Visiting professor and "Responsable-adjoint"** in CEMEF, MINES ParisTech, Sophia-Antipolis, France (part time from November 1997 to September 2000; full time from September 2000 to September 2004).
Research areas: physical chemistry of polymers (hydrogels, cellulose solutions, rheology and rheo-optics of gel suspensions)
- 2000 (2 weeks) **Invited professor**. Colorado State University, USA
Subject: «Polymer-metal complexes and gel formation»
- 1994-1996 (12 months) **Invited research position**. CEMEF, ENSMP, Sophia-Antipolis, France
Subjects: "Phase separation in polymer blends", "Swelling properties of hydrophilic gels"
- 1993 (3 months) **Post-doctoral fellowship**. CEMEF, ENSMP, Sophia-Antipolis, France.
Subject: “Light scattering by nematic droplets embedded in an isotropic matrix”, research director: Dr.P.Navard
- From 1987 to 2004 **Researcher** in the Institute of Macromolecular Compounds, Russian Academy of Sciences, St.-Petersburg, Russia.
Research areas: physical chemistry of polymers (hydrogels, polymer solutions, polyelectrolytes, interpolymer complexes)

ACADEMIC BACKGROUND

- 2003 Qualified as a **professor** in section 33, France
2002 Qualified as a **professor** in sections 28 and 31, France

- 1999 **Habilitation à diriger des recherches**, University of Nice/Sophia-Antipolis-ENSMP, France
Title: “Physical and physico-chemical properties of linear and cross-linked polyelectrolytes”.
- 1992 **Candidate thesis** (equivalent to a PhD). Institute of Macromolecular Compounds, Russian Academy of Sciences, St.-Petersburg, Russia.
Title: "Macromolecular interactions in polyacrylic acid aqueous solutions and hydrogels". PhD Supervisor: Prof.S.Ya.Frenkel
- 1987 **Diploma** in physics (equivalent to Master degree, 5.5 years study). Physical faculty of St.-Petersburg State University, Russia.

AWARDS

- 2020 Medaille d’argent CNRS/CNRS silver medal
- 2017 Prix “Innovation - Prix Imagin’Mais 2016-2017” pour “Matériaux innovants et fonctionnels à base d’amidon: les bio-aérogels” (Innovation award in the frame of « Imagin’Mais» 2016-2017, organised by professional organisations specialised in corn and sorghum production)
- 2015 Grade “Chevalier de Palmes Académiques” (Order of Academic Palms)
- 2014 Prix des Techniques Innovantes pour l’Environnement “Pollutec-2014” (Award for Innovative techniques for environment) by ADEME and specialised journals, for Aeropectin
- 1997 award for post-doctoral researches from the city of St.-Petersburg
- 1994 Russian Academy of Sciences award for young researchers
- 1993, 1994 two travelling grants from the International Science Foundation (USA)
- 1993 personal grant from the International Science Foundation (USA)

ACADEMIC SUPERVISING

- 21 PhD students
- 13 post-doctoral researchers
- > 40 Master students

PUBLICATIONS

- articles in refereed journals (published and accepted) 150
- book chapters 7

CONFERENCES

- invited lectures at international and national conferences 62
- lectures at international and national conferences 156

RESEARCH PROJECTS: SCIENTIFIC AND MANAGEMENT RESPONSIBILITIES

- > 30 national and international research projects in total
- 9 European projects
- 9 direct projects with companies (national and international)

OTHER ACTIVITIES

- Secretary of Cellulose and Renewable Materials division, American Chemical Society, 2019 - 2020
- Member of board in GDR (national research group) “Polymers and ionic liquids” and responsible of topic “Polymers processing from ionic liquids” (2014-2019)