



Nicolas CASTIN

Nuclear Engineer, PhD in physics

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Engineer by original training and ambition, my career unexpectedly drove me towards scientific research instead, at the Belgian Nuclear Research center (SCK CEN). It all started with an attractive PhD project to undertake, which continued for the decade that followed. Challenges kept coming, and so did the opportunity to learn and apply new techniques, which gradually converged towards the concrete and innovative accomplishment of a long-lasting goal in our community. Besides professional activities, I am a passionate self-learned photographer, with a taste for travelling and cooking.

Key Competences and Languages

- Development of computer simulation models from scratch.
- Learning new methods and innovate integration with others.
- Long term or short term developments according to the situation.
- Constantly learning and evolving.

French
Spanish
English
Dutch

Education

2007 - 2011
Mol, Belgium

PhD thesis in physics
Collaboration between SCK CEN and ULB

2005 - 2006
Mol, Belgium

Master of nuclear engineering
Belgian higher Nuclear Education Network (BNEN)

1999 - 2005
Louvain-La-Neuve, Belgium

Master of mechanical engineering
Université Catholique de Louvain (UCL)

PROFESSIONAL EXPERIENCE

Jan. 2020 – Present

Belgian Nuclear Society (BNS)
Secretary

- Organization of the BNS 50-years anniversary event on 28/10/2021. 750 invited guests, 300 present, 2 locations for the event (Brussels Planetarium and Atomium).
- Active participation to the numerical modernization of BNS, including covid-imposed transition to virtual or hybrid events.
- Active and daily work for a learned society with around 400 members and 9 events per years.

2013 – 2015
Buenos Aires, Argentina

Argentine National Scientific Institute (CONICET)
Post-doctoral research fellow

- Learning key simulation techniques for my scientific career.
- Unique work and life experience in south America, constantly dealing with unexpected issues.

2006 – Present
Mol, Belgium

Belgian Nuclear Research center (SCK CEN)
Scientific collaborator

- Development of physical models for the degradation of metals mechanical properties under irradiation. From the nano to the macro scale. Recognized as world-leading expert in the field.
- Experience with large European and international projects, constantly taking new challenges and strengthening the underlying research network.
- Scientific output: first author of 20 peer-reviewed publications, co-author of 57.
- Secretary of the association of French-speaking employees at SCK CEN. Editor of the associated magazine.