

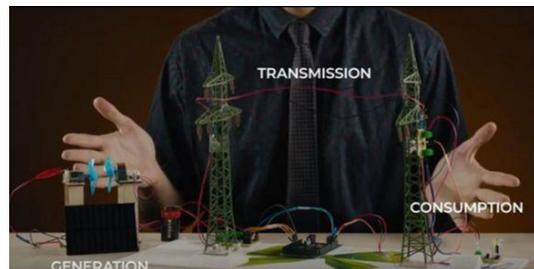
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Subject: InnoDC - workshops, secondments & papers



This year, InnoDC researchers have developed their work on international secondments, published journal papers and delivered public workshops.



Public work

They like to meet people of all ages and backgrounds, and share their work at [public events](#). [Motaz Ayiad](#), [Davide Pinzan](#) and [Wei Liu](#) created a mini-energy model, which proved popular with European teachers at the [32nd](#) and [33rd](#) Science Projects Workshops in Brussels. Watch this [2 minute video](#) to see the model explained. Over in India, [Anubhav Jain](#) presented a [conference](#) paper, then visited a rural school to deliver a [renewable energy workshop](#). He was impressed by the 50/50 female/male audience, the pupils' intelligent questions and their deep interest in energy.



Secondments

These included [Luis Orellana's visit to Cardiff University](#) (above left with [Dr Tibin Joseph](#)) where he continued an experimental validation (hardware in the loop) of his work on multi-infeed grid connected VSCs. [Jovana Dakic](#) and [Emily Maggioli](#) joined him to further their research, and enjoyed visiting scientist, [Carl Barker](#) of [GE](#)'s lecture on VSC and Power Electronics. In Belgium, [Anubhav Jain took advantage of CG](#)'s expertise in design, engineering and maintenance to refine his models, while over at [Energyville](#), [Motaz Ayiad](#) learnt the in-depth workings of Julia, a programming language and optimization tool. In Denmark, [Gayan Abeynayake gained hands-on experience at DTU Wind Energy](#) for his work on DC collection systems. Meanwhile, China Electric Power Research Institute (State Grid) welcomed [Peng Yang to work on its advanced digital power system simulator](#) and [Davide Pinzan in its pollution testing laboratory](#). They concluded their visit with a [presentation to State Grid experts](#).



Papers

InnoDC [conference presentations](#) this year included [Wei Liu](#)'s at the [International Renewable Power Generation conference](#), Shanghai. The Institute of Engineering and Technology awarded it 'Best Conference Paper' 3rd prize. The paper, co-authored with [Dr Gen Li](#), [Dr Carlos Ugalde-Loo](#) and [Prof Jun Liang](#) explains a procedure to avoid inrush currents and speed up the charging process of modular multilevel converters. Wei then published a collaborative [Cardiff University & EC Lille](#) paper, in the IEEE Transactions on Industrial Electronics journal, on protection of single-phase fault. [Read it here](#). Co-authors are Dr Gen Li, Prof Jun Liang, Dr Carlos Ugalde-Loo, [Dr Chuanyue Li](#) and [Prof Xavier Guillaud](#).

InnoDC is preparing more papers, so keep an eye on the [journals page](#) for the latest publications.





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