

# 16th International Conference on Plasma Surface Engineering

17. – 21. September 2018, Garmisch-Partenkirchen, Germany



## PSE 2018 –Topical Trends

For the **16th International Conference on Plasma Surface Engineering PSE 2018** about 500 abstracts were submitted. The Conference Program of PSE 2018 includes interesting presentations about Plasma and ion source engineering, surface modification technologies, coating applications and properties as well as presentations to the characterization and simulation of films and processes.

Abstract statistics of PSE 2018 show, that especially the interest in 3 topics increased for this conference. First the highest increase is visible in the field of **protective and tribological coatings** as well as **PVD and especially magnetron sputtering**, but also **pulsed plasma technologies** are still important. Here European activities to reduce CO<sub>2</sub> emission and safe energy lead to developments in the field of surface engineering. Also, hard material design for machine and tool components is still a hot topic as well as material resistance to increasing harsh conditions like high temperature and pressure. Interesting sessions to these topics you can find the whole week.

Furthermore, research around plasma characterization and process regulation was pushed forward according to the main trend to digitalization and forth industrial revolution. **Methods of in-situ process diagnostics** (new session on Monday) and **properties of technological plasmas** (session on Thursday) were two interests in this direction. Also, the session Analytics of film structures and properties on Thursday and Friday is related to this topic.

The third field of research, that increased are **energy production related coatings**. Here the European developments mainly for photovoltaics are represented.

New at PSE 2018 is the session to **Atomic Layer Deposition ALD** on Monday together with the Tutorial “Plasma assisted atomic level processing – PEALD & ALE” on Sunday. Beside these Trends PSE 2018 gives a wide overview to a variety of technologies and applications for plasma surface engineering. Please have a look at our **conference program**.

