**Workshop on**

**“Mg alloy design and processing: degradable implant materials, basics in metal physics and corrosion”**

* **Organizers:** Scanco & WUT & SYN with the help of HZG & BRI.TECH
* **Time:** 23-27.09.2019 (1 week)
* **Place:** SCANCO Medical AG, Fabrikweg 2, 8306 Brüttisellen, Switzerland

**Program**

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| Monday , 23rd September 2019 | |
| Up to 12:00 | Arrival and registration |
| 12:00-13:00 | Lunch |
| 13:00-15:00 | Basics in metals physics |
| 15:00-15:30 | Coffee break |
| 15:30-17:30 | Metals corrosion |
| Tuesday, 24th September 2019 | |
| 09:00-10:30 | Synchrotron CT and SAXS |
| 10:30-11:00 | Coffee break |
| 11:00-12:30 | CT theory |
| 12:30-13:30 | Lunch |
| 13:30-15:00 | Live demo |
| 15:00-15:30 | Coffee break |
| 15:30-17:00 | Basic image analysis – Hands-on |
| Wednesday, 25th September 2019 | |
| 09:00-10:30 | Biomaterials |
| 10:30-11:00 | Coffee break |
| 11:00-12:30 | Implant materials |
| 12:30-13:30 | Lunch |
| 13:30-15:00 | Implants design and performance |
| 15:00-15:30 | Coffee break |
| 15:30-17:00 | Working in the groups on project in biomaterials |
| 19:00- 22:00 | Dinner and networking |
| Thursday, 26th September 2019 | |
| 09:00-10:30 | Mg alloy design |
| 10:30-11:00 | Coffee break |
| 11:00-12:30 | Mg alloy processing |
| 12:30-13:30 | Lunch |
| 13:30-15:00 | Mg implants and their performance |
| 15:00-15:30 | Coffee break |
| 15:30-17:00 | Working in the groups on project in Mg implants |
| Friday, 27th September 2019 | |
| 09:00-10:30 | Machining learning |
| 10:30-11:00 | Coffee break |
| 11:00-12:30 | Summary of the working groups’ projects and Workshop closing remarks |
| 12:30-13:30 | Lunch |
| 13:30 | Departure |