Competence Centers for Excellent Technologies

COMET: K1-Centres

PCCL-K1

K1-Center in Polymer Engineering and Science

Main location	Leoben (Styria)
Other locations	Graz (Styria), Vienna
Research programme	Polymer chemistry, polymer processing, polymers in structural applications, surfaces and interfaces of polymeric materials

Planned realisation and outcomes

New polymeric materials with designed properties for specific applications, e.g. reversibly cross-linked materials;

Advanced technologies in polymer processing, e.g. physical foaming in extrusion, halogen-free flame retardant compounds, robust injection molding processes of elastomers;

Efficient concepts, procedures and methods for testing and characterization of polymeric products, e.g. aircraft composite structures and high-pressure thermoplastics pipes

Polymers with barrier properties, e.g. for protection of solar cells and for application in pipe systems

Functionalized polymer surfaces and interfaces with tunable properties, e.g. for controlling interfacial bonding

History of establishment	2002: foundation of PCCL as a Kplus Competence Center 2010: Continuation of PCCL as a COMET K1-Center 2013: successful 4YE, Continuation of PCCL as K1-Center till 12/2016

Selected company partners (max. 10)

AT&S AG (A)
BMW AG (D)
Engel Austria GmbH (A)
EMS Chemie AG (D)
FACC Operations GmbH (A)
Infineon Technologies Austria AG (A)
Julius Blum GmbH (A)
OMV AG (A)
Semperit Technische Produkte GmbH (A)
SKF Sealing Solutions Austria GmbH (A)

Selected scientific partners (max. 5)

Universität Leoben: Institut für Chemie der Kunststoffe, Institut für Werkstoffkunde und Prüfung der Kunststoffe, Institut für Kunststoffverarbeitung

Technische Universität Graz: Institut für chemische Technologie von Materialien

Technische Universität Wien: Institut für Leichtbau und Struktur-Biomechanik, Institut für Werkstoffwissenschaft und Werkstofftechnologie

Selected international partners [1](max. 5)

1. Conti tech AG (H)
2. DOW Europe S.A. (CH)
3. Hilti AG (FL)
4. Politecnico di Milano (I)
5. Technische Universität München (D)

Duration of the K1-Centre	January 2010 – December 2016 (7 years)
Staff employed at the Centre	100 Employees (thereof 85 scientists)
Total costs	1st Funding period: EUR 20 Mio (4 years) 2nd Funding period: EUR 15 Mio (3 years)
Management of the Centre	Mag. Martin Payer MBA (CEO), Prof. Dr. Wolfgang Kern (CSO)
Contact:	Roseggerstrasse 12, 8700 Leoben +43 3842 42962 0. office@pccl.at , www.pccl.at

[1] Partners with headquarters outside Austria