



Resume:

PERSONAL DATA

Name: Dipl. Ing. Dr. Markus Ungerank
Date of birth: 5.12.1968 in Bregenz
Marital status: married to Karin Ungerank, son David (born 2002)
Place of residence: 4320 Perg, Münzbacher Straße 22

BERUFLICHE TÄTIGKEITEN

01/2020 – present

Managing Director Creonia Cells GmbH

- Laboratory and-pilot plant facilities in Enns/Austria
- 3-year public funded project "SEA-Battery Foils"- Novel manufacturing process for free standing lithium-ion battery electrodes with improved properties and lower costs

12/2013 – present

Managing Director Creonia e.U.

- *Engineering Office Technical Chemistry*
- *Innovation Consulting*
- *Product, process and procedure development with emphases on polymer synthesis, polymer application technology, organic chemistry, membranes, plastic films, fibers, coatings, and powders, gas separation-with-membranes, ultrafiltration, nanofiltration, reverse osmosis, biogas processing and upgrading, biological methanation of carbon dioxide with hydrogen, lithium ion batteries cell development.*

07/2018 – 07/2020

Consultant Carbon Recovery GmbH

- *Material recycling of used tyres by pyrolysis for the production of recovered recycled carbon black*
- *Process and environmental optimization of the pyrolysis plant*

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| 09/2016 – 03/2018 | Managing Director Regiomobil Car Sharing <ul style="list-style-type: none">- <i>Electric car rental</i> |
| 12/2013 – 10/2014 | Project employee Gasaufbereitung Himmel GmbH, Korneuburg <ul style="list-style-type: none">- <i>Responsible for further development and engineering of biogas upgrading plants based on the functional principle of the Evonik Sepuran® technology</i> |
| 10/2013 – 07/2015 | MBA studies „Innovation Management“ <ul style="list-style-type: none">- <i>at LIMAK (Linz Management Academy)</i>- <i>All courses completed, master's thesis pending (discontinued due to serious work accident in August 2014)</i> |
| 12/1997 – 11/2013 | Head of Innovation, Evonik Fibres GmbH, Schörfling/Lenzing, Austria <ul style="list-style-type: none">- Management of up to 15 employees- Responsibility for raw material, quality assurance and control in a chemical plant, management of the laboratory- Management of multi-year development projects in the chemical/plastics sector from the reagent glass to the production plant and the market launch- Planning and construction of pilot plants- Introduction of a company wide ERP system, responsibility for the entire EDP, development of own database programs for the organization of production and laboratory- Training of employees in the areas of chemistry and EDP- Cooperation in management systems (ISO 14000, ISO 9002 and EMAS)- Worldwide travel to suppliers, customers, trade fairs and development partners- Cost center responsibility- Management of internal and external (companies and research institutes) development projects in the fields of high performance plastics, films, membranes, coatings, tribology, etc.- (New) Business Development, initial customer contacts- Application technology, technical marketing- Strategic corporate planning and direction together with business management- Plan and budget preparation- Technical and financial management of investment projects- Innovation management and basic controlling- Patent strategy, patent monitoring, patent preparation- Management of a chemical pilot plant |
| 09/1997 – 11/1997 | Project work at the Institute for Chemical Technology of Organic Substances at the TU Graz <ul style="list-style-type: none">- Continuation of the dissertation work |

- 10/1996 - 09/1997 **Civilian service at the Geriatric Hospital of the City of Graz**
- Care and employment of elderly patients in need of care
- 09/1993 - 06/1996 **Dissertation at the Institute for Chemical Technology of Organic Substances at the TU Graz**
- Synthesis of liquid crystalline polymers for optical applications
- Supervision of students and graduates within the scope of activities as a university assistant
- 1987 bis 1993 **Holiday work at Viscosuisse AG/Widnau CH**
- Auxiliary activities in internal maintenance and in the analytical laboratory in der Viscosuisse AG/Widnau CH

EDUCATION:

- 2013 – 2015 **MBA course in Innovation Management at the Linz Management Academy (LIMAK)**
- 1993 - 1996 **Dissertation Technical Chemistry at the TU Graz Institute for Chemical Technology of Organic Substances**
- 1993 **2nd diploma examination with distinction**
1987 - 1993 **Studies of Technical Chemistry with focus on organic and macromolecular chemistry at the Graz University of Technology**
- 1987 **Matura with good success**
1979 - 1987 **AHS at the Bundesrealgymnasium Dornbirn**

SKILLS AND KNOWLEDGE

Chemistry and technology

- In-depth knowledge in the field of polymer chemistry, especially in the sector of high-performance plastics, polyether ketones, polyimides and fibre chemistry
- Detailed knowledge in synthesis and analysis of plastics.
- Daily handling and partial maintenance of the following analytical methods: Liquid Chromatography (HPLC), Gel Permeation Chromatography (GPC), Gas Chromatography (GC), Differential Scanning Calorimetry (DSC), Thermogravimetry (TGA), Dynamic Mechanical Thermal Analysis (DMTA), Microscopy, Mechanical Testing, Viscosity Measurements, Infrared (FTIR), Knowledge of many other measurement methods.
- Knowledge in experimental design and execution
- Several years of laboratory organisation and staff management
- Process engineering knowledge, construction of pilot plants, SPS implementation

- Shaping and processing of high-performance plastics
- Production and processing of powders from high-performance plastics
- Incorporation of nanoparticles into plastic solutions
- Tribology
- Liquid crystals
- Fibre production, basic textile knowledge
- Production of foils
- Manufacturing of fibres
- Production and application of membranes (hollow fiber membranes, flat sheet membranes) in the fields of gas separation (O₂/N₂, CO₂/CH₄) and organophilic nanofiltration
- Basic knowledge in various technical fields such as flexible circuit carriers (substrate materials), membranes for material separation (gas separation, solvents), tribology of non-oil lubricated systems, fuel cells, ...
- Manufacturing of free standing Lithium-ion battery electrodes, testing,...
- Biogas production and processing to biomethane
- Hot gas filtration
- Pyrolysis, Carbon Black Chemistry

Management:

- Employee management
- Project management experience
- Innovation management at MBA level
- Business management knowledge at MBA level
- Marketing
- New Business Development

Languages:

- German mother tongue
- English business fluent
- French school knowledge

EDP:

- many years of experience as network administrator for Windows networks, knowledge in hardware and software installations
- Client and Server Windows, Microsoft SQL Server, VBA programming Microsoft Access, WAN, LAN, Lotus Notes,
- Synology Server, Office365 Business, ...
- Advanced Microsoft Office user skills
- C++ coding in IoT environments and PLC systems

Continuing Education:

- Employee management
- Courses in basic business management at the WIFI

Dr. Markus Ungerank, Münzbacher Straße 22, 4320 Perg • Mobil: +43 664 4612934

email: markus.ungerank@gmx.at, markus.ungerank@creonia.at

Website: <https://www.creonia-innovations.com>

- Microsoft SQL Server 2000 Course at WIFI
- Microsoft Access basic and advanced course
- English courses
- Evonik Advanced Training Program for young executives
- Evonik Marketing Training Program

PERSONAL INTERESTS:

- Family, hiking, table tennis, squash, excursions, travelling, sitting together with friends, member of a choir (Sing GesmbH Tragwein)