

Résumé Dr. Claudia Arnold



Address: Hinterm Liess 13
88481 Balzheim
GERMANY

Phone no.: +49-7347-920 233

Fax no.: +49-7347-920 597

E-mail: ca@arnold-chemie.de

Web address: www.arnold-chemie.de

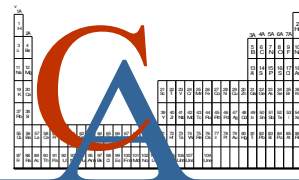
Date of birth: 25 Nov. 1965

Course of studies: Oct. 1984 – May 1990:
study of chemistry at the
University of Hannover

Dissertation: May 1990 – Dec. 1990:
dissertation in polymer chemistry at the University
of Hannover

Doctorate: Oct. 1991 – Oct. 1994:
thesis work in the process development laboratories
of Pfizer (Illertissen)

Viva: Dec. 1995, University of Ulm



- Work experience: Apr. 1991 – Sep. 1991:
Seus Systemtechnik GmbH & Co. KG, Wilhelmshaven:
- development of several recycling procedures for plastics, printing chemicals
 - planning of a polymer production plant that uses phosgene.
- Oct. 1991 – Jul. 1994:
Work in the Pfizer process development laboratories, using the results for a thesis:
- process development for the synthesis and scale-up of a new antibiotic molecule.
- Nov. 1994 – Mar. 1997: Sigma Aldrich Chemie GmbH, Neu-Ulm, bulk chemicals sales department:
- sale of bulk chemicals
 - assistant sales manager
 - project management for custom synthesis
 - authorised representative for the introduction of ISO 9001.
- Several chemical consulting projects done as a sideline, especially on process development for waste gas purification and trouble shooting for waste gas purification plants.
- Maternity leave: Apr. 1997 – Apr. 2000:
- More chemical consulting for engineering companies (especially for former employers) done as a sideline
- Freelance work: Since Apr. 2000:
Freelance consulting chemist in the field of industrial chemistry and process engineering.
- Memberships:
- **GDCh**, Gesellschaft Deutscher Chemiker e. V., chairman of the FFCh (Freelance Chemists and Laboratory Owners)
 - **BDU** Bund der Selbständigen e. V.
 - **SC** Science-Consult KG, a network of experts, associate, head of chemistry department and provisional head of information services department
 - **DECHEMA** e. V., member of the zeolite group

Some reference projects in the field of zeolite science and technology:

Project	Work done
Planning of an incineration plant for chemically contaminated sludge	<ul style="list-style-type: none"> ○ prediction of incineration products ○ assessment of the feasibility of zeolite adsorption technique for off gas purification
Methylene chloride recycling plant for an adhesive tape production unit	<ul style="list-style-type: none"> ○ design and cost assessment of a zeolite adsorption unit for solvent recycling under the conditions given (- 70 °C) ○ calculation of per-kg-cost of recycled solvent
Air conditioning plant for the production of ultra-dry cold air	<ul style="list-style-type: none"> ○ design and cost assessment of a zeolite adsorption unit for air desiccation at - 55 °C
Off gas purification for a production unit for cylinder-head gaskets	<ul style="list-style-type: none"> ○ design and cost assessment for various off gas purification techniques, including adsorption
Off gas purification unit for the sewer of a chemical plant	<ul style="list-style-type: none"> ○ design and cost assessment of a zeolite adsorption unit
Sale of several used adsorption plants	<ul style="list-style-type: none"> ○ procurement of prospective buyers
Several test plants for process development in the field of solvent drying	<ul style="list-style-type: none"> ○ design and cost assessment of a zeolite adsorption unit for ethanol drying
Development of new healthcare product containing zeolites (still running)	<ul style="list-style-type: none"> ○ patent and literature research ○ drawing up of methods for the production and assay of laboratory samples of the new product
Dynamics of a compressed air drying unit with adsorbents	<ul style="list-style-type: none"> ○ literature search for data ○ calculations

Ibid. in the field of market research, sourcing and marketing of technical products:

<u>Project</u>	<u>Work done</u>
Sourcing of a pharmaceutical compound	<ul style="list-style-type: none"> ○ research and negotiations to re-establish a deliverer for a rare pharmaceutical compound
Air conditioning for a laser unit, removal of trace amounts of methanol	<ul style="list-style-type: none"> ○ patent, literature and market research to find a filter material that meets the stringent requirements for the process
Feasibility study for a automobile tyre recycling plant	<ul style="list-style-type: none"> ○ patent, literature and market research to find possible uses for tyre oil and their corresponding net profits
Feasibility study for the recycling of cooking fat – other uses besides incineration	<ul style="list-style-type: none"> ○ patent, literature and market research to find possible uses for purified cooking fat as a raw material and their corresponding net profits

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| Feasibility study for a latent thermal storage unit | <ul style="list-style-type: none"> ○ sourcing of available PCM materials ○ calculation of unit cost |
| Particle detection in foodstuff | <ul style="list-style-type: none"> ○ patent, literature and market research to find applicable detection techniques ○ calculation of unit cost |
| Market prices for textile chemistry intermediates | <ul style="list-style-type: none"> ○ web research to find sources for pricing information which the customer could use himself |
| DeNO _x /SCR-catalyst market | <ul style="list-style-type: none"> ○ market research for most important producers, product types and prices, applications |
| Marketing of new environmental technology products | <ul style="list-style-type: none"> ○ articles, direct mail copy and internet text for the marketing campaigns of technological products |

Pharmaceuticals, pharmaceutical industry:

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|--------------------|---|
| Naturopathy | <ul style="list-style-type: none"> ○ PSUR researches for several homeopathic preparations and other naturally healing ingredients |
| Vitamin production | <ul style="list-style-type: none"> ○ Literature research for adsorptive methods to work up an aqueous mother liquor in production scale plants ○ drawing up of laboratory test procedures |

Languages

Besides German:

Croatian/Serbian:	native speaker
English:	business fluent
Italian:	fair