

casting) in Kirchheim upon Neckar; Tiedemann (photoelasticity devices and dynamometers) in Garmisch-Partenkirchen; Reichle & Knödler (machine tool manufacturers) in Heilbronn; deputy assistant at Chair C für Mechanics (now Chair for Apparatus and Reactor Construction) and at the Chair for Aeromechanics and Aviation Control

19-10-83

Degree in Engineering (Diplom-Ingenieur Univ.)

Experience

07-11-83 to 31-01-85

Scientific employee at Chair A for Mechanics including the State Materials Testing Institute (Prof. Dr. Dr. h.c. Horst Lippmann) at the University of Technology Munich

01-02-85 to 30-04-90

Non-permanent academic councillor at the above-mentioned institute

Main Tasks:

- Project-oriented handling of **industry contracts and court expertises** relating to the following subjects:
 - Material testing of metals and plastics
 - Calculations of strength and temperature of machine and installation components
 - Simulation programmes for dynamic processes in vehicles and aircrafts
 - Theoretical and experimental examinations as to the chipless shaping of metals (see also research contract and dissertation)
 - Acquisition
- Administration of the institute library
- Teaching activities (see further below)

01-05-90 to 31-01-91

Assistant for special functions for the production director of MAN Roland Druckmaschinen AG, rotary printing presses, Augsburg facilities

Main Tasks:

- Get acquainted with the manufacturing and assembly technologies employed
- Conceptual design and planning of a computer-controlled plasma spraying installation for the ceramic coating of plate cylinders for printing presses;
Analysis of experiments and definition of the spray coatings for plate and blanket cylinders of offset printing presses
- Determining the required quality features for the coated and sealed ceramic layers (for printing cylinders of offset printing presses) and conducting the necessary examinations of quality in close cooperation with external laboratories

- Evaluation of mechanical damage and cases of complaint relating to printing presses and printing press components at the customers

17-04-91

Power of Attorney according to § 54 Section 1 of the Commercial Code

23-10-91

Joint Power of Attorney including incorporation into the Register of Companies

01-02-91 to 31-12-94

Head of Department of the Technical Service Department (70 employees) for web-fed rotary printing presses

Main Tasks And Area of Responsibility:

- Personell Management
- Assessment and evaluation of complaints and damage of printing presses in situ
- Mechanical damage analyses on printing presses
- Placing orders for material and damage examinations with in-house and external institutions; participation in executing these orders
- Solution of detailed technical problems and realization of additional special technical requests for printing presses and printing press components
- Technical and commercial claims settlement with insurers and printing press operators
- Conception, development, testing and construction of a mobile cylinder coating equipment for repairing ceramic thin and thick layers of plate cylinders and blanket cylinders in assembled state within the printing press (responsible project leader)
- General layout and control of rotary printing press installations and coordination of technical and commercial details with subcontractors
- Implementation of a technical/commercial EDP-diagnostic centre for rotary web-fed printing presses
- Creating an overhead and investment cost budget
- Profit-centre-like new organization of the Technical Service Department, the Spare Parts Processing and the Documentation Department (spare parts catalogues, service manuals)

01-01-95 to 31-10-98

Creating a technical-analytical profit centre for the entire MAN Roland group:

- Surface technology related topics of printing cylinders, rollers, reversing cylinders, varnishing cylinders for printing presses
- Analysis of causes for damage of all kind
- Preparing, elaborating and implementing adequate problem and alternative solutions for the technical areas

Project management for the decoration printing

press DECOSET:

- Functionally safe development of the decoration printing press from the laboratory and prototype stage into a decoration printing press ready for production
- The printing technology "indirect intaglio printing" in combination with short ink train systems had to be developed safely functioning in the field
- Machine acceptance by the customer

01-11-98 – 30-04-2005

Various project activities at **EASYLAC GmbH** for the alcohol-reduced / alcohol-free and environmentally safe offset printing

Activities in Detail:

- Conception of new elastomeric coverings of dampening system rollers for sheet-fed and rotary web-fed printing presses
- Manufacturing of rollers in cooperation with external suppliers
- Advisory service and customer support with regard to the change to alcohol-reduced offset printing
- Writing expert opinions on damage together with printing press manufacturers such as MAN Roland Druckmaschinen AG, Koenig & Bauer Druckmaschinen, WIFAG Druckmaschinen, Heidelberger Druckmaschinen und Druckereien (customers)
- Interaction between printing presses / press components and consumption material such as oils, fountain solution, additives, varnishes, inks with regard to printing quality and maintenance-of-value of the printing press

since 01-05-2005

Expert and consultant office in Munich (Tegernseer Landstr. 161, D-81539 Munich; since 01-05-2007 extension of laboratory and move to Ständlerstr. 35, D-81549 Munich)

- Newspaper printing presses
- Illustration printing presses
- Sheet-fed printing presses
- Digital printing presses
- Reel splicers and reel handling
- Folders and auxiliary appliances
- Filtration equipment
- Silicone application and circulation equipment
- Temperature control units for rollers
- Varnishing units
- Printing of RFID-antennas via varnishing units of sheet-fed printing presses in an in-line process
- Application of RFID-memories in an off-line process after the varnishing unit
- Drying ovens for printing presses

- Electrostatic auxiliary equipment
- Re-imaging of printing plates
- Offset printing processes
- Silk-screen printing processes
- Intaglio printing processes
- Tampon printing processes

For more details please see: www.print-und-maschinenbau.eu

27-06-2006 Officially appointed and sworn expert for printing presses and printing processes by the Chamber of Commerce for Munich and Upper Bavaria

September 2016 Full Member of "Bund Technischer Experten e.V. (BTE)", specialized group mechanical engineering;
FUEDI European Loss Adjusting expert

Further Education

27-06 to 01-07-88 Course at the International Centre for Mechanical Sciences (CISM) in Udine (Italy):
"Postcritical Behaviour and Fracture Mechanics of Dissipative Solids"

01 to 02-03-91 Seminar „Discussion And Presentation Techniques“ of the Management-Training AG Michael Löhner

02 to 06-06-91 College-Management-Seminar (KF) for heads of department at the MAN-Academy (management consulting firm Grässle & Partner, Munich) in Lengries

09 to 15-11-91 5th Seminar of the MAN group (KS) at the MAN-Academy in Garmisch-Partenkirchen

1983 until today Participation in numerous national and international congresses und workshops in the field of engineering science at home and abroad, in part with lectures of my own both in German and English

May 1990 until today Participation in national and international congresses and Seminars relating to machine maintenance and status monitoring of rotary web-fed printing presses; Seminars and congresses on Total Quality Management;
National and international trade fairs of the graphic industry with main emphasis on printing presses and printing press components, also as technical consultant in company-owned trade fair booths (e.g. DRUPA, GEC, GRAFITALIA, IFRA)

Membership in Technical And Scientific Societies-

- Since 1984 Gesellschaft für angewandte Mathematik und Mechanik (GAMM) (Society for Applied Mathematics and Mechanics)
- Since 1990 Bund der Freunde der Technischen Universität München e.V., Munich (Association of the Friends of the University of Technology Munich, registered society)

Teaching Activities, Taking Care of Semester Papers, Theses And University Degrees

- 1983 until 30-04-90 Scientifically in charge of the lecture Technical Mechanics I - IV (1st – 4th semester: intermediate diploma mechanical engineering Technical University), Technical Mechanics V (main diploma mechanical engineering Technical University) and Higher Technical Mechanics (main diploma mechanical engineering, Technical University); Conducting central and tutor exercises relating to Technical Mechanics I - V (1st – 5th semester); In charge of the scientific practical training „Material Mechanics / Material Technology" for students of mechanical engineering; Exclusive responsibility for taking care of semester papers and theses in the field of theoretical and experimental mechanics; Member of the computer committee of the Faculty Mechanical Engineering of the University of Technology Munich
- 1993 / 94 Lecture "Application of Methods of Mechanics and Strength of Material in Practice" as optional subject for students (6th-8th semester) of the Faculty 03 Mechanical Engineering / Automotive Construction of the Technical College of Higher Education in Munich
- February 1994 – October 94 Member of the subject area commission for the faculty mechanical engineering of the Technical Colleges in Bavaria
- March 1994 – October 94 Taking care of 2 constructive theses for a degree (construction of a trial dampening unit for offset printing presses) and 2 experimental theses (registration of fountain solution films on rollers of dampening units by means of measuring techniques) in cooperation with the Faculty 03 of the Technical College for Higher Education Munich

Research Assignments and Dissertation

- 1984 to April 1990 Responsible for dealing with a research assignment of the Deutsche Forschungsgemeinschaft (DFG) (German Research Association) in Bonn on the field of metal shaping (theoretical and experimental examinations relating to the extrusion of aluminium)
- 27-11-89 Doctorate as Dr.-Ing. on the basis of the dissertation "Shear Fractures During the Forward Extrusion of Round-Section Rods Made of Aluminium"
- Rating: Passed with distinction

Publications

- 1987 Becker, K.-H.; Lippmann, H.; Sailer, C.; Teubl, E.: Localization and dead metal zones in warm extrusion. In: Lange, K. (ed.) Advanced Technology of Plasticity 1987. Proc. of the 2nd International Conference on Technology of Plasticity, Stuttgart, August 24-28, 1987, pp. 565-573. Berlin, Heidelberg, New York: Springer 1987.
- 1988 Sailer, C.: Thermisch beeinflusste Scherzonen beim Vorwärtsstrangpressen von Metallen (Thermally Influenced Shearing Sections During Forward Extrusion of Metals), Ingenieur-Archiv (Archives of Engineers) 58 (1988), pages 193-204. Berlin, Heidelberg, New York: Springer 1988.
- 1989 Sailer, C.: Scherbrüche beim Vorwärtsstrangpressen von Rundstangen aus Aluminium (Shear Fractures During Forward Extrusion of Round-Section Rods Made of Aluminium) Dissertation, University of Technolog Munich
- 1990 Sailer, C.; Lippmann, H.; Mannl, V.: Two-Dimensional Forward Extrusion Process of Axisymmetric Workpieces of Al 99.5 Including Temperature Calculations in the Tools. Advanced Technology of Plasticity 1990, pages 491-496. Berlin, Heidelberg, New York, Hong Kong, Tokyo: Springer 1990.
- 1993 Sailer, C.: Produktion und Technischer Service haben eine neue Flamme (über die Entwicklung einer mobilen Flamm-spritzbeschichtungsanlage für die Beschichtung von Plattenzylindern von Zeitungsdruckmaschinen in eingebautem Zustand)(Production and Service Departments Have a New „Flame“ –On the Development of a Mobile Flame Spray Coating Equipment for the Coating of Plate Cylinders of Newspaper Printing Presses in Mounted Condition). Bogen & Rolle; journal for the employees of the MAN Roland part of the MAN group

04/93, p. 15.

- February / March 1995 Sailer, C.; Lectures and publications with Australian newspaper printing houses regarding the topics maintenance-of-value of printing presses, appropriate care and maintenance, increase of printing quality
- April 1997 Sailer, C.: Physical Effects of Blanket Washes, lecture and publication at the GATF (newspaper printing presses) – seminar in St. Louis (USA)
- April 1997 Sailer, C.: MAN Roland Instructions / Measures for High Reliability, Printing Quality, Preservation and Life Expectancy of Offset Presses, lecture and publication at the GATF (newspaper printing presses)– Seminar in St. Louis (USA)
- Mai 2001 Sailer, C.: Druckmaschinen, Zeitungen, Dekore, Geldscheine, Alkohol und Mechanik (Printing Presses, Newspapers, Decorations, Banknotes, Alcohol and Mechanics) – celebration colloquium on the occasion of the 70th birthday of Prof. Dr. Dr. h.c. H. Lippmann, University of Technology Munich.
- Mai 2001 Sailer, C.; et al.: Der Ausstieg aus der Alkoholfeuchtung ist das Ziel (Abandoning the Alcohol Dampening Is the Aim). Deutscher Drucker (The German Printer) No. 22-23/15-06-2001.
- 2002 Sailer, C.; Uhlemann, G.H.: Symbiosis of Ecology and Economicalness Ready for the Market; EASYLAC, a company of the VEGRA-group of companies, developed the EASY-CLEANER 2004 especially for newspaper printing and the EASY-CLEANER B-02 for fountain solution filtration and recycling . Druck & Medien-Magazin,(Print and Media Magazine) 23-24 / 2002.
- 2002 Sailer, C.: Feuchtwasser-Recycling steigert Zeitungsproduktion (Fountain Solution Recycling Increases Newspaper Production). The Commander of the publishing house M DuMont Schauberg is designed for 88 printing units. It is regarded as flagship in the Köln-Niehl printing centre and produces newspapers such as the Kölner Stadt-Anzeiger, Kölnische Rundschau und Express. The last fine adjustment of the printing press was achieved by fountain solution recycling using the EASY-CLEANER equipment, also in favour of printing quality and efficiency. Deutscher Drucker No. 25/27-06-2002.
- Since 2006 Ein Gutachter berichtet aus seinem Alltag: Gerichtsgutachten, Schiedsgutachten, Parteigutachten, Versicherungsgutachten (An Expert reports about His everyday-Life: Legal opinions, Arbitrator´s Opinions, Party expertises, Insurance

expertises); a bi-weekly series in the professional journal Deutscher Drucker.

Since 2009

Expert series in the Austrian professional journal PRINT & PUBLISHING.

30 March 2010

Special edition of the „Deutscher Drucker“: Cases of Damage from the Printing Industry, 132 pages, number of copies: 3.000, author: Dr.-Ing. Colin Sailer.

30 March 2014

Special edition of the „Deutscher Drucker“: Cases of Damage from the Printing Industry (second volume), 106 pages, number of copies: 2.000, author: Dr.-Ing. Colin Sailer.

Hobbies:

Since 1987

Powered aircraft sports

Pilot license for private aircraft pilots PPL-A/CVFR/ instruction authorization for single-engine airplanes up to 2t;

Permission for theoretical teaching with teaching activity in the subjects technology, navigation and meteorology for the training of private pilots

Publication 1993

Sailer, C.: Mit einem gecharterten Wasserflugzeug in zwei Tagen über die kanadische Wildnis (In Two Days over the Canadian Wilderness Flying a Chartered Seaplane), Aerokurier 37th year, issue 4, April 1993, pages 66-68. Stuttgart: Vereinigte Motor-Verlage GmbH & Co. KG.