

# CURRICULUM VITÆ

Name	Claude Bernard Rieker	
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E-mail	claude.rieker@a3.epfl.ch (home) claude.rieker@zimmer.com (professional)	
Born	10 April 1962 in Geneva, Switzerland	
Family	Married with Alexandra Lo Re Rieker Father of Julien Rieker (born on 20 December 2003) Father of Adrien Rieker (born on 29 November 2006)	
Military	Free of all duties	
Education	1969 - 1981	Elementary, primary and secondary school in Lausanne - Switzerland.
	1981 - 1986	Swiss Institute of Technology - Department of Materials - Lausanne - Switzerland.
	1986 - 1990	University of Neuchâtel - Switzerland Ph.D. in Metallurgy under the supervision of Prof. D.G. Morris.
	2000	St. Galler Junior Management Program SMP Management Program St. Gallen AG.
Languages	French (mother tongue) English (first certificate in English - 1986) German (fluent)	
Employment	<b>2006 - to date</b>	<b>Zimmer GmbH - Winterthur Switzerland Director of Scientific Marketing</b> <ul style="list-style-type: none"><li>• Scientific support for the marketing department (new technologies [tribology / new surfaces] and new products).</li><li>• Scientific support for the Zimmer sales organisations.</li><li>• Numerous scientific presentations (roadshows) in Europe, America, and Asia.</li></ul>

- Member of the European Hip Society.  
Member of the ASTM Society.  
Member of the Swiss Society of Biomaterials.
- Board member of ISTA (International Society of Technology in Arthroplasty).
- Publications in peer-reviewed journals.
- Swiss co-ordination for the COST 533 project (bio-tribology of total joint prostheses).

**2005 - 2006**

**Zimmer GmbH - Winterthur  
Switzerland**

**Director of European External Research**

- Global responsibility of the scientific collaborations between Zimmer GmbH and European universities.  
Definition of the research projects, coordination for the financing of these projects as well as their legal aspects.

**1996 - 2005**

**Zimmer GmbH - Winterthur  
Switzerland**

**Director of tribology**

- Global responsibility of the tribologic department and laboratory (5 persons in Winterthur [Switzerland]).
- Development and optimisation of all the articulation systems (METASUL™ - CERASUL™ - DURASUL™ - SULENE™ - TRIBOSUL™) mainly for hip and knee prostheses.
- Co-organiser of the "World Tribologic Forum in Arthroplasty" in Montreux (Switzerland) and Boston (MA) in October 2000 - 1000 participants.
- Co-organiser of the "METASUL 10-years Jubilee Meeting" in Zurich-Oerlikon (May 1998) - 200 participants.
- Numerous tribological presentations (roadshows) in Europe, North and South America, Asia, and Australia - New Zealand.

**1995**

**Protek - Münsingen / Berne - Switzerland  
Head of the hip development**

- Global responsibility of the hip development department (8 persons in Europe).
- Co-ordination of all the hip development projects (implants and instruments).

- Project co-ordination between Protek and Sulzer Medizinaltechnik Ltd. (Winterthur).
- Project co-ordination between Protek and Robert Mathys Ltd. (Bettlach).
- Personal support for the Prof. Wagner product line.
- Personal support for the Prof. Spotorno product line.

**1992 - 1995**

**Protek - Berne - Switzerland**

**Head of the product management**

- Global responsibility of the product management department for hip, knee, wrist and ligaments prostheses (14 persons in Europe).
- Personal support for the Prof. Müller product line.

**1990 - 1992**

**Protek - Berne - Switzerland**

**Design engineer (hip)**

- Development of the METABLOC™ hip system.
- Development of the PFM-R™ hip system.
- Development of the Bipolar system.

## Main publications

- Journal of the Less-Common Metals, 145, 1988, p. 595.
- Materials Science and Technology, 5, 1989, p. 590.
- Acta Metallurgica and Materials, 38, 1990, p. 1037.
- Materials Science and Engineering, A133, 1991, p. 854.
- Metal-on-metal articulation for artificial hip joints: laboratory study and clinical results - Journal of Engineering in Medicine, 210, 1996, p. 223.
- Clinical wear performance of metal-on-metal hip arthroplasties - Alternative Bearing Surfaces in Total Joint Replacement, edited by J.J. Jacobs and T.L. Craig - STP 1346, ASTM 1998, p. 144.
- Analysis of 114 second generation metal-on-metal retrieved implants - Journal of Bone and Joint Surgery, 81-B, 1999, p. 46.
- Editor of the book: METASUL, a Metal-on-Metal Bearing - Hans Huber Publisher - Berne, 1999, ISBN 3-456-83048-3.
- Tribological performance of 144 metal-on-metal hip articulations - Actualités en Biomatériaux, edited by D. Mainard et al., Romillat, Paris, 2000, p. 79.

- Comparison of two hard - hard articulations for total hip replacement - Journal of Engineering in Medicine, 215, 2001, p. 153.
- Editor of the book: World Tribologic Forum in Arthroplasty - Hans Huber Publisher - Berne, June 2001, ISBN 3-456-83599-X.
- Die Geschichte von METASUL - Acta Chirurgiae Orthopaedicae et Traumatologiae Cechosl., 69, 2002, p. 277.
- In vivo tribological performance of 231 metal-on-metal hip articulations - Hip International, 12, 2002, p. 73.
- Wear behaviour of new generation ceramics - Bioceramics in joint arthroplasty, edited by H. Zippel and M. Dietrich, Steinkopff Darmstadt, 2003, p. 19.
- In vivo and in vitro surface changes in a highly cross-linked polyethylene - The Journal of Arthroplasty, 18, Suppl. 1, 2003, p. 48.
- Tribologische Untersuchungen einer metakarpophalangealen Prothese - Orthopäde, 32, 2003, p. 784.
- Le polyéthylène dans les prothèses totales de hanche - Maîtrise Orthopédique, 124, 2003, p. 4.
- Is the OXINIUM technology a useful technology in total joint arthroplasty? - Bioceramics in joint arthroplasty, edited by J.-Y. Lazennec and M. Dietrich, Steinkopff Darmstadt, 2004, p. 99.
- Development and validation of a second generation metal-on-metal bearing - The Journal of Arthroplasty, 19, Suppl. 3, 2004, p. 5.
- Influence of the clearance on in-vitro tribology of large diameter metal-on-metal articulations pertaining to resurfacing hip implants - Orthopedic Clinics of North America, 36, 2005, p.135.
- Tribology considerations for hip joint articulations in relation to the "new orthopaedic patient" - Hip International, 16, suppl 4, 2006, p. S12.

Hobbies

Biking, sailing and photography.