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**Born:**

18 January, 1947, Oslo, Norway

**Education:**

1976 Ph.D., Massachusetts Institute of Technology  
1972 M. Sc. (Cand.real.), University of Oslo  
1970 D.E.A., Université de Paris (Orsay)  
1969 B. Sc. (Cand. mag.), University of Oslo

**Positions:**

*Permanent:*

1987- Professor, University of Oslo  
1979-1986 Assoc. professor, University of Oslo

*Visiting:*

2004 (1 month) MSRI, Berkeley  
2004 (1 month) Institut Mittag-Leffler, Djursholm  
1997 (1 month) École Normale Supérieure, Paris,  
1992 (1 month) École Normale Supérieure, Paris  
1988-89 Bunting Institute/Harvard University  
1982 (1 month) Université de Grenoble  
1981 (2 months) Universidad Federal de Pernambuco, Recife, Brazil  
1980 (spring) Institut des Hautes Études, Bures  
1978 (spring) École Polytechnique, Palaiseau  
1978-79 Institut Mittag-Leffler, Djursholm  
1976-77 Massachusetts Institute of Technology

**Honors, committees:**

2003–2006 Member of the Executive Committee of the International Mathematical Union  
2005– Member of the Scientific Council of CIMPA  
2003– Member of the Scientific Advisory Panel of the European Mathematical Society  
2002 Member of the “Working group for the Abel Prize”  
2000 Member of the Prize Committee of the 3rd European Congress of Mathematics  
1996– Member of the editorial board of *Communications in Algebra*  
1995–99 Member of the Standing Committee of European Women in Mathematics  
1994– Member of the Norwegian Academy of Science and Letters  
1994–98 Member of the editorial board of *Astérisque*  
1994–97 Vice Dean, Faculty of Mathematics and Natural Sciences, University of Oslo  
1992 Invited lecture, First European Congress of Mathematics, Paris  
1992 Invited lecture, 21. Nordic Congress of Mathematicians, Luleå  
1984 Invited lecture, 19. Nordic Congress of Mathematicians, Reykjavik

**Research interests:**

Algebraic Geometry: enumerative geometry and intersection theory, singularities, moduli spaces; algebraic methods in computer aided geometric design.

**Selected publications:**

- 1) “Numerical characters of a curve in projective space”, In Real and complex singularities, Oslo 1976 (ed. P.Holm), Sijthoff & Noordhoff, Groningen 1978, 475–495.
- 2) “A proof of Noether's formula for the arithmetic genus of an algebraic surface,” *Compositio Math.* 38 (1979), 113–119.
- 3) “Polar classes of singular varieties,” *Ann.scient.Éc.Norm.Sup.* 11 (1978), 247–276.
- 4) “A geometric approach to the arithmetic genus of a projective manifold of dimension three” (with F. Ronga), *Topology* 20 (1981), 179–190.
- 5) “Cuspidal projections of space curves,” *Math. Ann.* 256 (1981), 95–119.
- 6) “Duality for rational normal scrolls” (with G. Sacchiero), *Comm. in Algebra* 12(9) (1984), 1041–1066.
- 7) “On the Hilbert scheme compactification of the space of twisted cubics” (with M. Schlessinger), *American J. of Math.* 107 (1985), 761–774.
- 8) “Some intrinsic and extrinsic characterizations of projective space” (with W. Fulton, S. Kleiman, H. Tai), *Bull. Soc. Math. France* 113 (1985), 205–210.
- 9) “On the variety of nets of quadrics defining twisted cubics” (with G. Ellingsrud, S. Strømme), *Space Curves, Proc. Rocca di Papa 1985* (eds. F. Ghione, C. Peskine, E. Sernesi), Springer LNM 1266 (1987), 84–96.
- 10) “On the inseparability of the Gauss map” (with S. Kleiman), *Contemp. Math.* 123 (1991), 107–129.
- 11) “A characterization of balanced rational normal surface scrolls in terms of their osculating spaces II” (with E. Ballico and H. Tai), *Math. Scand.* 70 (1992), 204–206.
- 12) “Arithmetically Cohen-Macaulay curves of degree 4 and genus 0 in  $P^4$ ” (with M. Martin-Deschamps), *Manuscripta Math.* 93 (1997), 391–408.
- 13) “Enumerating singular curves on surfaces” (with S. Kleiman), *Contemp. Math.* 241 (1999), 209–238.
- 14) “Node polynomials: methods and applications” (with S. Kleiman), *Math. Nachr.* 271 (2004), 1–22.
- 15) “Singularities of some projective rational surfaces.” *Computational methods for Algebraic Spline Surfaces* (eds. T. Dokken, B. Jüttler), Springer-Verlag 2005, 171–182.

**Books edited:**

- 1) “The legacy of Niels Henrik Abel” (coeditor with O. A. Laudal), Springer-Verlag 2004.
- 2) “Algebraic Geometry and Geometric Modeling” (coeditor with M. Elkadi and B. Mourrain), Springer-Verlag (to appear 2006).