

Curriculum vitae

Maria Smedh

Date of birth: 14 October 1968

Health: excellent

Education

1984-1987 The science program at the 'gymnasium' (senior high school), Rinmansskolan, Eskilstuna.

1987-1991 Uppsala University, Uppsala: Mathematics 40 p, pedagogy 10 p, the history of thoughts and learning 20 p, the German language 20 p.

1990-1991 One year art school at Folkuniversitetet, Uppsala.

1993-1996 Lund University, Lund: Mathematics 20 p, physics 100 p, "Gender perspective on science and technology" 10 p.

1996 Master of Science in physics

1996-2001 Doctoral studies at the Department of Synchrotron Radiation Research, Lund University

2001 Doctor of Philosophy in physics

Comments: 40 p correspond to one year of full-time studies in Sweden.

The period January 1992- August 1993 I lived in Malaysia together with my former husband.

Employments

So far I have not had a full-time employment, except for the position as a Ph.D. student, since I have been dedicating my life to academic studies and research. On the other hand, I have never been unemployed during vacations and I have also been working part time during periods of my under graduate studies. These short-time/part-time employments include:

1984-1987 Assembler in a factory, Anchorverken, Eskilstuna

1987-1991 Archivist at a newspaper, Eskilstuna Kuriren

Substitute teacher at several schools in Uppsala

Medical orderly at psychiatric ward, Uppsala

Newspaper deliverer, Upsala Nya Tidning

Telemarketing, Uppsala

Model for artists, Folkuniversitetet, Uppsala

1992-1993 Waitress at a pub, Kota Kinabalu, Malaysia

1993-1996 Medical orderly at a long-term medical care ward, Lund

Model for artists, Vuxenskolan, Lund

Academic qualifications/merits

Master of Science thesis:

“Vibrationally resolved core photoionization of free ethylidyne studied at the MAX synchrotron light source”

M. Wiklund, Lund University, 1996.

Licentiat thesis:

”Investigations of Molecular Vibrations in Core Level Photoemission Spectroscopy: Free Ethylidyne and Methoxy Chemisorbed on Cu(100)”

M. Wiklund, Lund University, ISRN LUNFD6/NFFS--98/1015--SE

Doctoral thesis:

” Molecular overlayers on homogeneous and heterogeneous metal surfaces studied by core-level photoemission”

M. Smedh, Lund University, ISRN LUNFD6/NFFS--01/1020--SE

Comment: In the end of the year 2000 I changed my name from Wiklund to Smedh. Please be aware of this while reading my publication list.

Publication list

Articles included in my doctoral thesis:

M. Wiklund, A. Jaworowski, F. Strisland, A. Beutler, A. Sandell, R. Nyholm, S. L. Sorensen, and J. N. Andersen

Vibrational fine structure in the C 1s photoemission spectrum of the methoxyspecies chemisorbed on Cu(100)

Surf. Sci. 418 (1998)

A. Sandell, A. Beutler, A. Jaworowski, M. Wiklund, K. Heister, R. Nyholm, and J. N. Andersen

Adsorption of acetylene and hydrogen on Pd(111): formation of a well ordered ethylidyne overlayer

Surf. Sci. 415 (1998) 411.

M. Wiklund, A. Beutler, R. Nyholm, and J. N. Andersen

Vibrational analysis of the C 1s photoemission spectra from pure ethylidyne and ethylidyne coadsorbed with carbon monoxide on Rh(111)

Surf. Sci. 461 (2000) 107.

M. Smedh, A. Beutler, T. Ramsvik, R. Nyholm, M. Borg, J. N. Andersen, R. Duschek, M. Sock, F. P. Netzer, M. G. Ramsey

Vibrationally resolved C 1s photoemission from CO adsorbed on Rh(111): The investigation of a new chemically shifted C 1s component.

To be published

M. Smedh, A. Beutler, M. Borg, R. Nyholm, and J. N. Andersen

Determination of the coverage dependent isosteric heat of adsorption of CO on Rh(111) by high resolution core level photoemission.

To be published

S. Surnev, M. Sock, M. G. Ramsey, F. P. Netzer, M. Wiklund, M. Borg, J. N. Andersen

CO adsorption on Pd(111): a high-resolution core level photoemission and electron energy loss spectroscopy study

Surf. Sci. 470 (2000) 171.

A. J. Jaworowski, M. Smedh, M. Borg, A. Sandell, A. Beutler, S. L. Sorensen, E. Lundgren, and J. N. Andersen

CO dissociation on Mo(110) studied by high-resolution core-level spectroscopy

To be published

A. Beutler, F. Strisland, A. Sandell, A. J. Jaworowski, R. Nyholm, M. Wiklund, and J. N. Andersen

Adsorption properties of a mixed surface studied by high resolution core level photoemission: CO/0.5 ML Pd/Rh(111)

Surf. Sci. 411 (1998) 111.

A. Beutler, A. Sandell, A. J. Jaworowski, M. Wiklund, R. Nyholm, and J. N. Andersen

The influence of preadsorbed oxygen on the adsorption of CO on two-dimensional Pd islands on a Rh(111) surface

Surf. Sci. 418 (1998) 457.

A. Beutler, A. J. Jaworowski, M. Wiklund, A. Sandell, R. Nyholm, S. Gray, and J. N. Andersen

Identification of a laterally mobile state during CO adsorption

J. Phys.: Cond. Matter 12 (2000) 765.

M. Smedh, Z. Li, R. Nyholm, and J. N. Andersen

CO adsorption on a heterogeneous surface: 1.x layers of Pd on Mo(110)

To be published

Articles not included in the doctoral thesis:

S. L. Sorensen, M. Wiklund, S. Sundin, A. Ausmees, A. Kikas, and S. Svensson

Continuum resonance in ethylidyne: Evidence from vibrationally resolved core photoionization

Phys. Rev. A 58 (1998) 1879.

S. Sundin, A. Ausmees, O. Björneholm, S. L. Sorensen, M. Wiklund, A. Kikas, and S. Svensson

Influences from the C 1s shape resonance on the vibrational progression in the Auger decay of CO

Phys. Rev. A 58 (1998) 2037.

A. Sandell, A. Beutler, A. Jaworowski, and M. Wiklund
*Adsorption and reactions on a surface alloy: CO, NO, O₂ and CO₂ on Pd(100)-Mn-
c(2×2)*
Surf. Sci. 421 (1999) 116.

H. Over, A. P. Seitsonen, E. Lundgren, M. Wiklund, and J. N. Andersen
Spectroscopic characterization of catalytically active sites on an oxide surface
To be published

M. Borg, M. Birgersson, M. Smedh, A. Mikkelsen, R. Nyholm, C.-O. Almbladh, D.
L. Adams, and J. N. Andersen
Experimental and theoretical surface core-level shifts of aluminium (100) and (111)
To be published

Other qualifications/merits

During my studies, both at Uppsala and Lund Universities, I have been engaged in the student unions, and therefore been a member of different committees. Furthermore, I am very interested in teaching and education. During the end of my undergraduate studies I was a mentor for the second semester physics course at the physics department in Lund. I have also been teaching during my graduate studies, both faculty work and private teaching, and I have participated in as many courses in pedagogy as possible.

Other interests

I have a lot of interests, of which the most important are:

Dance and music (I dance West-African dance and salsa)
Literature, theater and art
Oil-painting and drawing
Driving my motorcycle
Downhill skiing and diving
Working out in a gym