

CURRICULUM VITAE

Dr Sabine M C Verryn

BIOGRAPHICAL SKETCH

Name: Sabine Marie Charlotte VERRYN

Maiden Name: Dettweiler

Address: 75 Kafuestreet

Lynnwood Glen
Pretoria
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Date of Birth: 14 September 1961

Place of Birth: Düsseldorf, Germany

Nationality: RSA/German

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Status: Married to Rev Prof Dr Stephen David Verryn, owner: Creation Breeding Innovations cc. Three children, Sandra, born 08.03.88, Nadine, born 18.03.91 and Mark born 25.03.97.

EDUCATION:

- July 1980: Abitur (Matric after 13 school years at the Adolf Reichwein Gymnasium in Heusenstamm, Germany.
- Nov. 1984: BSc at the University of Pretoria
Mayors: Geology and Mathematics
Additional Subjects: Computer Science, Statistics, Chemistry, Geography
- Nov. 1985: BSc(Hons in Geology with additional subjects Ore Dressing and Extractive Metallurgy.
- Nov. 1989: MSc (Geology) University of Pretoria
"Geochemical and Petrographical Investigation of the Waaikraal Gold Deposit Northwest of Brits, Transvaal.
- Sept. 2000: Phd (Geology) University of Pretoria
"Natural and synthetic phase relations of cooperite, braggite and vysotskite"

SCHOLARSHIPS AND PRIZES

- 1984: GENCOR - Prize for best 3rd-year student in Geology
1985: GENCOR - Prize for best Honours student in Geology
1985: CSIR - Bursary for Honours- studies

NRF RATING

C3 Rating from 01.01.2009 to 31.12.2014

WORK EXPERIENCE

Name of employer	Capacity and/or type of work	Period From mm//yy to mm//yy
University of Pretoria	X-Ray Diffraction Operator Grade II	Feb. 1986 - Dec. 1987
University of Pretoria	X-Ray Diffraction Operator Grade I	Jan. 1988 - Dec. 1989
University of Pretoria	Scientific Analyst (X-Ray Diffraction)	Jan. 1990 – January 2009
XRD Analytical & Consulting cc	Owner, Director, Analyst	January 2009 -

TEACHING EXPERIENCE

Courses presented		
Course	Level (e.g. second year, Masters)	Self developed (Yes or No)
Introduction to X-Ray Powder Diffraction 1998-2008	(GLY701) Geology Honours	Yes
Introduction to X-Ray Powder Diffraction 1998-2006 April 2004, March 2005, June 2006, 2007, 2008,2009, 2010	(NPA700) Masters, Metallurgical Engineering	Yes
Introduction to X-Ray Powder Diffraction 1998-2006 2005,2006, 2007, 2008,2009, 2010, 2011, 2012	(GMI210) second year, Metallurgical Engineering	Yes
Mineralogy (GLY 201) 2006, 2007, 2008, 2009 - 2018	Second year	XRD - yes

Other education and pedagogic courses presented		
Course	Year	Institution
Introduction to X-Ray Powder Diffraction Course originally presented as part of GLY701 presented through CE@UP as short course	May 2002, April 2003, November 2003, March 2004, April 2005, September 2006, March 2006, 2007, 2008, November 2008	University of Pretoria
Short Course in X-Ray Diffraction – Co-Presenter	2004	Rand Afrikaans University
Advanced XRD and Rietveld refinement course – Co-presenter	2005, 2007	This course is presented in conjunction with MINSA (Mineralogical Society of South Africa) at University of Johannesburg
Introduction to X-Ray Powder Diffraction	2008	Geological Survey of Botswana
Short Course in X-Ray Diffraction	2009	Exxaro
Basic XRD Course - PANalytical	2009 to date	PANalytical
Rietveld XRD Course - PANalytical	2009 to date	PANalytical

SUMMARY

After completing my schooling in Germany in 1980 I commenced my studies at the University of Pretoria in 1981, which I completed with a PhD in Geology in 2000. In 1984 I received the GENCOR - Prize for best 3rd-year student in Geology and in 1985 the GENCOR - Prize for best Honours student in Geology.

I am married to Rev Prof Dr Stephen Verryn and we have 3 children.

I am an author or co-author of 33 peer-reviewed papers in scientific journals and have been presenter or co-presenter of 42 papers at international conferences.

I am a member of the Geological Society of South Africa (and elected as a fellow in 2009) and of the Mineralogical Association of South Africa. In the latter I have been on the elected executive committee since 2001 and was elected Vice Chairperson in 2005 and Chairperson in 2006, Vice Chair in 2008, Chair 2009, Vice chair 2013. From 2010-2016, I represented MINSAs on the GSSA Council and am member of the meetings portfolio of the GSSA.

I have been 2nd vice president of the International Mineralogical Association from 2012-2014.

I am also a member of the South African Crystallographic Society (SACrS) and the South African Spectroscopic Society as well as the Canadian Mineralogical Association as well as the German Mineralogical Association.

As a member of the South African Coal Ash Association (SACAA) I was elected onto their council.

In 2006, I was elected as the South African Representative on the International Mineralogical Association's Commission on New Minerals, Nomenclature and Classification (CNMNC). This involves assessing new mineral proposals as well as reclassification and renaming of minerals on a monthly basis in an international committee. I resigned from this responsibility in 2014.

Since 1986 I have been responsible for the running of the X-Ray Powder Diffraction Unit at the X-Ray analytical facility, which is attached to the Department of Geology at the University of Pretoria. In that time I have been involved in numerous research projects involving X-ray diffraction analysis as well as training of students, personnel and other X-ray scientists and analysts.

The acquisition of a new PANalytical X'Pert PRO X-Ray Powder Diffractometer in 2005, which is equipped with a high temperature chamber as well as open Eulerian Cradle for texture and residual stress analysis opened a variety of new possibilities for research. Acquisition of sophisticated software for data interpretation is hugely beneficial. I research and collaborate in projects involving quantitative analysis, process control, texture, and stress analysis. Using the resources available I have developed into a specialist in the field of X-ray powder diffraction and am often asked for assistance and advice by ex-colleagues, other tertiary institutions and companies.

I have organized local symposia and workshops involving international scientists in 2001, 2005, 2006 and 2012 and 2018 relating to cement materials, alternative materials and, X-ray diffraction as well as analytical techniques.

I have been on the organizing committee for the Geoanalysis 2009 conference of International Association of Geoanalysts to be held in South Africa in September 2009.

Together with the MINSAs (Mineralogical Association of South Africa) committee, I prepared a bid to hold the 21st General Meeting of the International Mineralogical Society in South Africa in 2014, which was successful. With that, I was on the organizing committee for the 20th General Meeting of the International Mineralogical Society in Budapest in 2010.

I see myself as a leading scientist in South Africa in the field of Powder Diffraction and especially quantitative Powder Diffraction analysis.

From the beginning of 2009 I am continuing my career via my own Company "XRD Analytical and Consulting cc" I am a consultant at Exxaro as well as PANalytical and am still approached to assist Staff and student at the University of Pretoria as well as UWC, NWU, UCT, Stellenbosch, WIS, UWC, TUT, VUT and others. Clients include Exxaro, CSIR, Vergenoeg Mine, SGS, Mintek, DeBeers, Afrisam, Lafarge, Aurecon, Batman, Corobrick, Hatch, Geostrada, Geostratum, Waterlab, Minova, Vametco, PMC, Anglo, Waterlab, and many others.

I have been appointed as "Extraordinary Lecturer" in the Department of Materials Science and Metallurgical Engineering from 2009 to end 2011 as well as part time lecturer from 2012 to 2018.

MEMBERSHIP IN NATIONAL AND INTERNATIONAL BODIES

Geological Society of South Africa – Member – elected Fellow in 2009 – on Council

Mineralogical Society of South Africa – Co-opted Committee Member since 2001, Vice-chair person in 2005, Chair Person in 2006, Elected Committee Member 2007, Vice-chair 2008, Chair 2009/10, Vice Chair 2013/14, Chair 2014/2015

Spectroscopic Society of South Africa – Member

German Mineralogical Association

South African Coal Ash Association – Council Member

Fossil Fuel Foundation

SA Council for Scientific Professions – registered as natural scientist

Geological Association of Africa

International Mineralogical Association (IMA) 2nd Vice President (2010-2014), Council Member 2014- 2016

CONFERENCE ORGANIZING COMMITTEES

Geoanalysis 2009 – member of organizing committee

IMA2010 – (Meeting of the International Mineralogical Association – Budapest)

- member of organizing committee

CAG23 – Colloquium on African Geology - member of organizing committee

IMA2014 - (Meeting of the International Mineralogical Association –South Africa)

- Chair of the organizing committee

PUBLICATIONS IN PEER-REVIEWED OR REFEREED JOURNALS

Verryn, S.M.C., Von Gruenewaldt, G. and Merkle, R.K.W. (1991) Petrogenetic implications of mineralogical and geochemical features of rocks hosting the Waaikraal gold deposit, northwest of Brits, Transvaal. *South African Journal of Geology* 94, 204-211.

Verryn, S.M.C., Merkle, R.K.W. and Von Gruenewaldt, G. (1991) Gold- and associated ore minerals of the Waaikraal deposit, northwest of Brits, Bushveld Complex. *European Journal of Mineralogy* 3, 451-466.

Merkle, R.K.W. and Verryn, S.M.C. (1991) Coexisting cooperite and braggite - new data. ICAM '91, Proceedings Volume 2, Paper 61, 16 p.

Verryn, S.M.C. and Merkle, R.K.W. (1994) Compositional variation of cooperite, braggite, and vysotskite from the Bushveld Complex. *Mineralogical Magazine* 58, 223-234.

Verryn, S.M.C. and Merkle, R.K.W. (1996) Observations on factors affecting the compositional variation of synthetic "cooperite" in the system Pt-Pd-Ni-S at 1000°C. *Neues Jahrbuch für Mineralogie Monatshefte*, 471-482.

Merkle, R.K.W., Piki, R., Verryn, S.M.C. and De Waal, D. (1997) A Raman spectroscopic investigation of synthetic "cooperite", (Pt,Pd,Ni)S. *Neues Jahrbuch für Mineralogie Monatshefte* 518-528.

Piki, R., de Waal, D., Merkle, R.K.W., and Verryn, S.M.C. (1998) Raman spectra and factor group analysis of synthetic "braggite", (Pt,Pd,Ni)S. *Proceedings of the XVIth International Conference on Raman Spectroscopy*, Cape Town, Sept. 1998;

Merkle, R.K.W., Piki, R., Verryn, S.M.C. and De Waal, D. (1999) Raman spectra of synthetic "braggite", (Pd,Pt,Ni)S. *Mineralogical Magazine*, **63(3)**, 363-367

Piki, R., De Waal, D., Merkle, R.K.W. and Verryn, S.M.C. (1999) Raman spectroscopic identification of synthetic "braggite" (Pd,Pt,Ni,S) samples in comparison with synthetic "cooperite". *Applied Spectroscopy*, **53(8)**, 927-930.

Verryn, S.M.C. and Merkle, R.K.W. (2000) Synthetic "cooperite", "braggite", and "vysotskite" in the system PtS-PdS-NiS at 1100°C, 1000°C, and 900°C. *Mineralogy and Petrology*, **68**, 63-73

Verryn, Sabine M.C. and Paul M. P. B. Meulenbeeld (2000) A new locality for Chapmanite ((Sb(OH)Fe₂(SiO₄)₂) at a Lead-Silver-Zinc Deposit near Argent Station, Mpumalanga, South Africa, *N.Jhb. Miner. Mh.*, 85-90.

- Verryn, S.M.C. and Merkle, R.K.W. (2000) Stability fields and Ni-content in synthetic “cooperite”, “braggite”, and “vysotskite” between 1200°C and 700°C. Proceedings of the Sixth International Congress on Applied Mineralogy, ICAM2000, Göttingen, Germany, 17-19 July 2000, 451-454
- Smit, E., Manoun, B., Verryn, S.M.C. and de Waal, D. (2001) Improvement of X-ray powder diffraction Patterns of the spin transition polymer $[\text{Fe}(\text{Htrz})_3](\text{ClO}_4)_2 \cdot 1.85\text{H}_2\text{O}$. Powder Diffraction, 16(1), 37-41.
- Verryn, S.M.C. and Merkle, R.K.W. (2002) The system PtS-PdS-NiS between 1200° and 700°C. Canadian Mineralogist (40), 571-584
- Merkle, R.K.W., Franklyn, C.B., Przybylowicz, and Verryn, S.M.C. (2002) Intercomparison of electron probe micro-analyses and particle induced X-ray emission analyses of Pt-Pd-Ni-S matrices. Nuclear Instruments and Methods in Physics Research B 190, 821-825
- Verryn, S.M.C. and Merkle, R.K.W. (2002) The system PtS-PdS-NiS between 1200° and 700°C. Canadian Mineralogist (40), 571-584
- Labuschagne, F.J.W.J., Verryn, S.M.C., and Focke, W.W. (2003) X-ray powder diffraction data for Ammonium D-Gluconate, $\text{C}_6\text{H}_{11}\text{O}_7\text{NH}_4^+$. Powder Diffraction, 18(2), 162-165
- Manoun, B, Popovic, L, de Waal, D and SMC Verryn (2003) Rietveld refinements of a new solid solution $\text{Ba}(3-x)\text{Sr}_x(\text{PO}_4)_2$ ($0 \leq x \leq 3$) Powder Diffraction, 18(2), 122-128
- Merkle, R.K.W. and Verryn, S.M.C. (2003) Cooperite and Braggite from the Bushveld Complex: implications for the miscibility gap and identification. Miner. Deposita, 38, 381-388
- Madvate, C.M. de O., Malate, A.M., Verryn, S & Loubser, M (2004) Energy Requirement for Firing Porcelain. Bull. Chem. Soc. Ethiop. 18(1), 1-8
- Mutale C.-T., A.S. Tuling and S.M.C. Verryn (2004) Identification of solid titanium oxides inclusions in steel melt at 1600°C, STEEL GRIPS - Journal of Steel and Related Materials p48-52
- De Villiers J.P.R., S.M.C. Verryn, and M.A. Fernandes. (2004) Disintegration in high grade titania slags: Low temperature oxidation reactions of ferro-pseudobrookite. Mineral Processing and Extractive Metallurgy (Trans. Inst. Min. Metall. C) August 2004 Vol. 113 C9
- Prinsloo LC, Wood N, Loubser M, Verryn SMC and Tiley S. 2005. Re-dating of Chinese celadon shards excavated on Mapungubwe Hill, a 13th century Iron Age site in South Africa, using Raman spectroscopy, XRF and XRD. Journal of Raman Spectroscopy. 36: 806–816.

de Villiers JPR and Verryn, S, (2007), Modern techniques in X-ray diffraction applied to metallurgy
JOURNAL OF THE SOUTH AFRICAN INSTITUTE OF MINING AND METALLURGY Volume: 107 Issue: 2
Pages: 83-86

Nhlapo, N., T Motumi, E. Landman, SMC Verryn and WW Focke (2008) Surfactant-assisted fatty acid intercalation of layered double hydroxides. *J Mater. Sci.*, 43: 1033-1043.

Labuschagne, Philip; Willem A Germishuizen; Sabine Verryn, Francois S Moolman (2008) "Improved oxygen barrier performance of poly(vinyl alcohol) films through hydrogen bond complex with poly(methyl vinyl ether-co-maleic acid) *European Polymer Journal* 44, 2146-2152

Verryn, SMC (2008) X-Ray powder diffraction data for Chromite from the UG-2 of the Bushveld Complex, South Africa, *South African Journal of Geology*,, 225-228

Loubser, M and Verryn, SMC (2008) Combining XRF and XRD analyses and sample preparation to solve mineralogical problems. *South African Journal of Geology*, 229-238

Focke, Walter Wilhelm; Nontete Susan Nhlapo; Lumbidzani Moyo; Sabine Marie Charlotte Verryn (2010) Thermal Properties of Lauric- and Stearic Acid Intercalated Layered Double Hydroxides, *Molecular Crystals and Liquid Crystals*, 1563-5287, Volume 521, Pages 168 – 178

Szucs, Zoltan; Danie Moolman; Sabine Verryn and Jan Rijn Zeevaart (2010) The metal Rhodium does not have allotropes, *J Radioanal Nucl Chem* **284**, 239-243

Oboirien, B.O., A.D. Engelbrecht, B.C. North, Vivien M. du Cann, S Verryn, R. Falcon (2010) Study on the structure and gasification characteristics of selected South African bituminous coals in fluidised bed gasification, *Fuel Processing Technology*,

J.H. Potgieter, D.J. Delport, S. Verryn and S.S. Potgieter-Vermaak, Chloride-binding Effect of Blast Furnace Slag in Cement Pastes Containing Added Chlorides
S. Afr. J. Chem., 2011, 63, 108–114,

Moyo, Lumbidzani; Focke, Walter W; Labuschagne, Frederick J W J; and Verryn; Sabine (2012) Layered Double Hydroxide Intercalated with SodiumDodecyl Sulfate; *Molecular Crystals and Liquid Crystals* Volume 555, Issue 1

Meier, Roger, Jennifer Anderson, Sabine Verryn (2012) Industrial X-ray Diffraction Analysis of Building Materials in: *Applied Mineralogy of Cement and Concrete* eds: Broekmans, MATM and Poellmann H, *Reviews in Mineralogy and Geochemistry* Vol 74, Mineralogical Society of America and The Geochemical Society, pp 147-167

Verryn ... (2012)

Paul M. P. B. Meulenbeld, Wiebke Grote & Sabine Verryn (2014) The Albert Silver Mine and Trippkeite Occurrence, Mpumalanga, South Africa, *Rocks & Minerals*, 89:5, 416-423,

+ a few more

National Conferences

Verryn, Sabine, Herbert Pöllmann & Elsabé Kearsley (2005) A study of the use of ferro- and silico manganese slag in ordinary Portland cement – a starting point for further investigations. Workshop and symposium Alternative raw materials and methods in cement chemistry, Pretoria, September 6-7 2005

Verryn, SMC (2003) Sample Preparation for XRD SASS Sample Preparation Workshop, 29 30 October 2003. Pretoria.

Verryn, SMC (2011) XRD Applications in coal characterization (guest speaker) User day XRD in Mining, 21 Sept 2011, Johannesburg

Verryn, Sabine , Characterization of Ash – X-Ray Diffraction, The South African Coal Ash Association Workshop On The Utilisation Of Coal Ash 13 October 2011 Sanlam Auditorium, Conference Centre, University of Pretoria

Verryn, Sabine. (2011)_The Waaikraal Project – Challenges of small deposits presented at the Gold Day by The Directorate of Professional Programmes of the Geological Society of South Africa Wednesday 13 April 2011 Glen Hove Conferencing, 52 Glenhove Road, Melrose, Johannesburg

Verryn, Sabine (2012) X-Ray Powder Diffraction – presented at the Geochemical and Mineralogical Analysis Day by The Directorate of Professional Programmes of the Geological Society of South Africa Friday 20 April 2012 Bytes Conference Centre, Midrand, Johannesburg

Verryn, S (2012) X-ray analysis in the Fe-Mn Industry – presented at Manganese & Iron Ore Day by The Directorate of Professional Programmes of the Geological Society of South Africa Friday 14 September 2012 Glen Hove Conference Centre, Melrose, Johannesburg

And many others ...

International Conferences

Verryn, S.M.C., Von Gruenewaldt, G. and Merkle, R.K.W. (1990) Geochemical and petrographical investigation of the Waaikraal gold deposit, northwest of Brits, Transvaal. Geocongress '90 Capetown, Abstracts.

Merkle, R.K.W. and Verryn, S.M.C. (1991) Coexisting cooperite and braggite - new data. ICAM '91, Pretoria.

Verryn, S.M.C. and Merkle, R.K.W. (1992) Compositional variation of natural platinum-group minerals in the system Pt - Pd - Ni - S. Geocongress '92 Bloemfontein, Abstracts.

Merkle, R.K.W. and Verryn, S.M.C. (1992) Cooperit, Braggit und Vysotskit: Zusammensetzungen und Beziehungen. Berichte der DMG, Beihefte zum European Journal of Mineralogy 4, 1992, p 191.

Verryn, S.M.C. and Merkle, R.K.W. (1993) Cooperite, braggite, and vysotskite from the Bushveld Complex. Terra Abstracts 5, 54

Verryn, S.M.C., Merkle, R.K.W. and Winkels-Herding, S. (1994) Cooperite, braggite, and vysotskite from the Merensky Reef and the UG-2 of the Bushveld Complex. 16th IMA Meeting, Pisa 1994, Abstracts.

Merkle, R.K.W., Winkels-Herding, S., Botha, A.J. and Verryn, S.M.C. (1994) Compositional variation of co-existing braggite and vysotskite grains from the UG-2, western Bushveld Complex. 7th International Platinum Symposium, Moscow, 1994, Abstracts.

Verryn, S.M.C., de Waal, S.A., Schweitzer, J.K. and Hatton, C.J. (1995) The contact metamorphic aureole of the Rustenburg Layered Suite of the Bushveld Complex: Zn concentration as characterized by an X-ray diffraction study. Geocongress '95, Johannesburg, Abstracts.

Verryn, S.M.C. and Merkle, R.K.W. (1996) Phase relations in the system Pt-Pd-Ni-S. ICAM '96, Warsaw/Poland, Abstracts, p. 84.

Pikl, R., Merkle, R.K.W., Verryn, S.M.C. and De Waal, D. (1997) Raman and infrared studies on synthetic "cooperite" in the system platinum, palladium, nickel, and sulfur. INORGANIC '97, p. 87-88

Verryn, S.M.C. and Merkle, R.K.W. (1998) Synthetic "cooperite", "braggite", and "vysotskite": the system PtS-PdS-NiS at 900°C, 1000°C, and 1100°C. 8th International Platinum Symposium, Abstracts, South African Institute of Mining and Metallurgy, Symposium Series S18, p. 427-429

Pikl, R., de Waal, D., Merkle, R.K.W., and Verryn, S.M.C. (1998) Raman spectra and factor group analysis of synthetic "braggite", (Pt,Pd,Ni)S. Proceedings of the XVIth International Conference on Raman Spectroscopy, Cape Town, Sept. 1998

Merkle, R.K.W., Loubser, M., and Verryin, S.M.C. (1998) The death of a platinum crucible: an epilogue. *Analytica '98*, Midrand, October 1998.

Verryin, S.M.C. and Merkle, R.K.W. (2000) Stability fields and Ni-content in synthetic "cooperite", "braggite", and "vysotskite" between 1200EC and 700EC. ICAM2000, Göttingen, Germany, 13-21 July 2000

Focke, W.W., Labuschagne, F.J.W.J and Verryin, S.M.C. (2001) The use of XRD to determine the thermal decomposition products of Polyhydroxycarboxylic acid salts. *Colloquium Spectroscopium Internationale*, Pretoria, 8-13 July 2001

Merkle, R.K.W., Franklyn, C.B., Prozesky, V.M. and Verryin, S.M.C. (2001) Pt-Pd-Ni-sulphides: comparability of analyses by electron microprobe, micro-PIXE, and Rutherford backscattering. +*Colloquium Spectroscopium Internationale*, Pretoria, 8-13 July 2001

Focke, W.W., Labuschagne, F.J.W.J, Prinsloo, L.C. and Verryin, S.M.C. (2001) The use of XRD, Infrared spectroscopy and Scanning Electron Microscopy to identification of the thermal decomposition mechanism of Polyhydroxycarboxylic acid salts. *Colloquium Spectroscopium Internationale*, Pretoria, 8-13 July 2001

De Villiers, J. P. R. and Verryin S. M. C. (2002) Low temperature oxidation reactions of M_3O_5 in titania slags IMA2002 18th General Meeting of the International Mineralogical Association 1-6 September, Edinburgh, Great Britain

Verryin S.M.C., F.J.W.J. Labuschagné, and W.W. Focke (2003) X-ray powder diffraction data for Ammonium D-Gluconate, $C_6H_{11}O_7NH_4^+$, Poster, 21st European Crystallographic Meeting, Durban, South Africa, 24-29 August 2003

Loubser, Maggi, Johan PR de Villiers, Sabine Verryin, Linda Prinsloo and Danita de Waal. Characterisation of XRF Fluxes using X-ray Diffraction and Raman Spectroscopy. CSI XXXIII, 7-12 September 2003, Granada Spain.

Verryin S.M.C., H.Pöllmann, & E.Kearsley (2004) The Use of Fe-Mn Submerged-arc Furnace Slag in Composite Portland Cement – a Pilot Study. International Conference on Applied Mineralogy (ICAM2004) Aguas de Lindoia, Brazil, 19-22 September 2004.

Pöllmann, H, Kersten, H, Stöber, S. Verryin, S & De Villiers, J. (2004) Die Verwendung von Ferromangan- und Silicomanganschlacken als pozzolanischer Zuschlag bei Zementen. *Gesellschaft Deutscher Chemiker, Monogr. Bd.31, Tagung Bauchemie*, Erlangen, Germany, 7-8 October 2004

Loubser, M. and S. M. C Verryin. XRF as an Exploration Tool. *Geoscience Africa 2004*, 12 to 16 July 2004. University of the Witwatersrand, Johannesburg, South Africa.

Loubser, Maggi, Danita de Waal, Sabine Verryin, Linda Prinsloo and Johan PR de Villiers. Using all the tools in your Toolbox: How different Spectroscopic techniques could be used to elucidate problems associated with XRF

sample preparation. AXAA 2005 National Schools, Conference and Exhibition. 14 to 18 February 2005
Esplanade Hotel Fremantle, Perth WA

Verryn, SMC, Poellmann, H and Kearsley, E. A pilot study of the use of South African Fe-Mn, Si-Mn, Pt-converter and matte-smelting furnace slags in composite Portland cement” Global Slag Conference in Duesseldorf (Germany) in November 14-15, 2005

Loubser, Maggi and Sabine M C Verryn. Combining XRF and XRD, analyses and sample preparation, to solve mineralogical problems. Geoanalysis 2006. September 19-21, 2006, Beijing

de Villiers, JPR and SMC Verryn The Use of XRD for Process Optimization in the Minerals and Metallurgical Industry. 24th European Crystallographic Meeting (ECM24), Marrakech 22-27 August 2007

Verryn S. M.C. and J. P.R de Villiers: XRD Rietveld analysis has developed into a versatile method for: Phase characterization of building materials and other industrial minerals. invited Presentation at the Building Materials Analysis 2007 6-8 February 2006 in Halle/Saale, Germany

Verryn, S. M.C. and J. P.R de Villiers: Quantitative X-Ray powder diffraction analysis of iron-ore sinters. 19th General Meeting of the International Mineralogical Association (IMA), Kobe, Japan, July 23rd to 28th, 2006

de Villiers JPR and Sabine Verryn: The Use of XRD for Process Optimization in the Minerals and Metallurgical Industry. 24th European Crystallographic Meeting (ECM24), Marrakech 22-27 August 2007

Verryn, S.M.C. and R.K.W. Merkle (2008) Phase relationships in the system PtS-PdS-NiS: summary of previous results and new X-ray diffraction data. Goldschmidt 2008, July 13 - 18 2008, Vancouver, Canada

de Villiers, Johan and Sabine Verryn (2008) Modern x-ray diffraction methods for process optimization in the minerals industry – case studies, Ninth International Congress for Applied Mineralogy (ICAM 2008), 8-10 September 2008, Brisbane, Australia (Refereed)

Spicer, Esmé and Sabine Verryn (2008) Analysis of heavy mineral sands by Quantitative X-ray powder Diffraction and Mineral Liberation Analyzer, Ninth International Congress for Applied Mineralogy (ICAM 2008), 8-10 September 2008, Brisbane, Australia (Refereed)

Mogoru, Joseph and Sabine M.C Verryn (2008) The potential use of various metallurgical slag and fly ash from South Africa as cement extenders. Ninth International Congress for Applied Mineralogy (ICAM 2008), 8-10 September 2008, Brisbane, Australia (Refereed)

Kruger, Richard A and Sabine Verryn (2008) The pozzolanic reaction: Effect of mineralogy and morphology EuroCoalAsh 2008, October 6-8, 2008 The Westin Warsaw Hotel, Warsaw, Poland

de Villiers, Johan and Sabine Verryn (2009) XRD In Industrial Applications, Geoanalysis 2009, 7 to 11 September, 2009, Drakensberg, South Africa

Mogoru, Joseph, Sabine M.C Verryn and Richard Kruger Utilization Of Perlite And Waste Slag From South African Steel And Copper Industry As Cement Extenders. 20th General Meeting of the International Mineralogical Association (IMA), Budapest, Hungary, 21-27 August 2010

Verryn, SMC (2011) Waaikraal Gold Deposit, North-west of Brits, South Africa 23rd Colloquium of African Geology (CAG23) January, 08-14/2011, University of Johannesburg, South Africa

Verryn, Sabine (2011) X-ray analysis on coal and related materials. Building Materials analysis Meeting 2011 Martin-Luther-Universität Halle-Wittenberg, Germany, 28, 2011 - March 30, 2011

Moyo L., W. W. Focke, F.J. Labuschagne and S. Verryn (2011), Layered double hydroxide intercalated with sodium dodecyl sulfate, 11th International Conference on Frontiers of Polymer and Advanced Materials, May 2011 (Oral and Poster Presentation).

S.M.C. Verryn (2012) X-Ray diffraction analysis of coal and related materials, EMC2012, Frankfurt, Germany, 1-5 September 2012

Meier, Roger, Jennifer Anderson, Sabine Verryn (2012) Industrial X-ray Diffraction Analysis of Building Materials MSA course: Applied Mineralogy of Cement and Concrete 21-22 June 2012 (after ICDC 2012) Trondheim, Norway convenors: Maarten A. T. M. Broekmans and Herbert Poellmann, sponsors: Mineralogical Society of America and The Geochemical Society – submitted – course cancelled

And others