INDEX OF PUBLICATIONS - 1951/2001

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Published Overseas

Economic Subjects (or partially so)

**D.G. KRIGE (Personal Bound Volumes)**


   Also: *J. of the Institute of Mine Surveyors of S.A. December 1952, March 1953.* *(Vol.1...2)*


   2/3*. Nos.2 and 3 above were translated into *French* and republished in *Annales des Mines, December 1955, - under the title:*

   **Travaux de M. D. G. Krige sur l'évaluation des gisements dans Les mines d'or Sub-Africaines.** *(Vol.3...1)*

4. ‘n Statistiese analise van die vernaamste risiko verbonde aan kapitaal-belegging in nuwe goudmyne in Suid-Afrika - *Tegnikon, Oktober 1955.* *English (Vol.4...4) (Vol.1...5)*

5. A study of the relationship between development values and recovery grades on the South African goldfields - *J.S.A.I.M.M, January 1959, - discussion and reply April and October 1959. (Vol.1...6)*


11. The application of correlation and regression techniques in the selective mining of gold ores - *2nd APCOM Symposium, University of Arizona, Tucson, April 1962*. *(Vol.3…3)*

12. The significance of a limited number of borehole results in the exploration of new South African gold fields - *2nd APCOM Symposium, University of Arizona, Tucson, April 1962*. *(Vol.3…2)*


16. Recent developments in South Africa in the application of trend surface and multiple regression techniques to gold ore valuation - *4th APCOM Symposium, Colorado School of Mines Quarterly Vol. 59, No. 4, October 1964*. *(Vol.2…4)*
17. The use of mathematical statistics and computers for planning and control of gold mines of the Transvaal and Orange Free State, (jointly with P.C.Pirow) - *8th Commonwealth Mining and Met. Congress, Australia, 1965.* (Vol.2…5)


20. Ore value trend surfaces for the South African gold mines based on a weighted moving average - *6th APCOM Symposium, Penn. State University, April 1966.* (Vol.3…4)


28. The development of statistical models for gold ore valuation in South Africa - Sixth International Mining Congress, Madrid, 1970. (Vol.3…9)


32. The fitting of contour surfaces to hanging and footwall data for an irregular ore body, (jointly with Rendu) - 13th APCOM Symposium, Clausthal-Zellerfeld, West Germany, October 1975. (Vol.2…19)


37. The human element in APCOM’s development - Keynote address for 15th APCOM Symposium, Brisbane, Australia, July 1977,


39. Grade Control and Geostatistics - Grade Control Course, Dept. Geology, Wits. Also Chamber of Mines Workshop -1979. (Vol.6...2)


41. Long-term trends in domestic metal prices under international conditions of differential inflation rates and unstable currency exchange rates - J.S.A.I.M.M, September 1978. (Vol.6...14)


43. An analysis of the potential benefits to the State of realistic adjustments to the mining tax structure-J.S.A.I.M.M, July 1979. (Vol.4...19)

44. Some novel features and implications of a general risk analysis model for new mining ventures - S.A.I.M.M Colloquium, 4 May 1979; J.S.A.I.M.M, October 1979. (Vol.4...23)

45. Fiskale beleid vir die mynbou-bedryf - AHI Kongres, Mei, 1981. (Vol.4...24)

46. Threshold rates of return on new mining projects as indicated by market investment results (jointly with J. Austin) - S.A.I.M.M Colloquium, 30 May 1980 - J.S.A.I.M.M, October 1980. (Vol.6...4)

47. Some theoretical and practical aspects of geostatistics as practised in S. Africa - Geostatistics Conference, UNISA, Aug, 1981. (Vol.6...6)

48. Studies of the effects of outliers and data transformation on variogram estimates for a base metal and gold ore body (jointly with

49. Geostatistical case studies of the advantages of lognormal-de Wijsian kriging with mean for a base metal mine and a gold mine (jointly with E.J. Magri) - *Mathematical Geology, Vol. 14, No. 6, 1982 ppp.547/555. (Vol.6…8)

50. Gold mine productivity as affected by the average wet bulb temperature of the underground working places (jointly with C. P. Barnard) - *J.S.A.I.M.M, May 1981, pp. 117/121. (Vol.6…9)


57. Capital Investment in New Mining Projects- *Taipei, 198. (Vol.6…11a)

58. Taxation Implications of Capital Expenditure in Mining - *Capex in Mining Conference, Johannesburg - 20/3/1986. (Vol.7…1)

60. Estimating grade differentials from drilling results on new gold properties. *20th APCOM Symposium, Johannesburg, S.A.I.M.M., October 1987.* (Vol.7...3)


63. A-priori parameter distribution patterns for gold grade in the Witwatersrand basin to be applied in borehole evaluations of potential new mines using Bayesian Geostatistical techniques. *22nd APCOM, 1990, Berlin, pp.715-726, - jointly with Kleingeld and Oosterveld.* (Vol.7...6)


67. The relative rating of macro kriging and other techniques as applied to borehole evaluations of new gold mines, (jointly with Assibey-Bonsu). *Proceedings 23rd APCOM, Tucson, 1992, chapter 23 -- 66.* (Vol.7...9)

68. Variability in gold grade and spatial structures of Witwatersrand reefs; the implications for geostatistical ore valuations. *J.S.A.I.M.M., March 1993, pp 79/84.* (Vol.7...10)

70. An analysis of some essential basic tenets of geostatistics not always practised in ore valuations. Keynote address, First Regional APCOM, Slovenia, June, 1994. (Vol.7...12)


72. Some practical aspects of ore reserve estimation at Chuquicamata Copper Mine, Chile, (jointly with P.G. Dunn). 25th APCOM, Brisbane, Australia, July 1995. (Vol.7...14)

73. SAIMM Centenary republication of first paper (1951). (Vol.7...15)

74. A practical analysis of the effects of spatial structure and data available and used, on conditional biases in ordinary kriging - 5th International Geostatistics Congress, Wollongong, Australia, 1996. (Vol.7...16)

75. Block Kriging and the fallacy of endeavouring to reduce or eliminate smoothing. Keynote address, 2nd Regional APCOM Symposium, Moscow State Mining University, August 1997. (Vol.11...2)


77. Essential basic concepts and models in mining geostatistics and their geological context Capricious Earth: Models and modelling of geological processes and objects; Theophrastus Publications, St. Petersburg - Athens, Russia, 2000. (Vol.11...4)

78. The use of the Principal Components technique to define anisotropy details for spatial structures. APCOM '99 International Symposium, Colorado School of Mines, Golden, October 1999. (Vol.11...5)


82. The South African Code for reporting of mineral resources and mineral reserves and the geostatistical implications involved (as co-author with Camasani): *6th International Geostatistics Congress, April, 2000, South Africa* *(Vol.11...9)*

83. Limitations in accepting repeated simulations to measure the uncertainties in recoverable resource estimates particularly for sections of an ore deposit (jointly with Assibey-Bonsu). *6th International Geostatistics Congress, April 2000, South Africa*. *(Vol.11...10)*


85. The SAMREC code seen in a global context, jointly with Camasani *APCOM2001, Beijing, China, April, 2001*. *(Vol.11...12)*

86. Valuation of recoverable resources by kriging, direct conditioning or simulation, *APCOM 2001, Beijing. April, 2001*. *(Vol.11...13)*

87. Comment on Journel's paper in *Mathematical Geology, 2000*, re a Spectral Postprocessor. *(Vol.11...14)*

88. A classical statistical perspective on the birth and some critical developments of mining geostatistics. *UNISA conference in honour of Prof.F.Steffens, May, 2002*. *(Vol.13...1)*

89. The genesis of geostatistics and some aspects of the valuation of diamond deposits (jointly with W.Kleingeld). *Fontainebleau publication, 2002*. *(Vol.13...2)*


**NOTES:**

I. Certificates of merit were awarded by the S.A.I.M.M. for papers 2, 6,8, 9 and 13.

II. The gold medal of the S.A.I.M.M. was awarded in 1966 for No. 18 and for earlier research work, silver medals for No. 40 in 1979 and No. 63 in 1993, and a second gold medal in 1980 for No. 64.

III. The Daniel Cowan Jackling award was received from the SME of the AIME for No.58 and other contributions.
ARTICLES AND CONTRIBUTIONS NOT INCLUDED IN THE ABOVE LIST

Awards:
SAIMM gold medal: Dec. 1966 Vol. 2 no. 9, Vol. 8 no. 3
BSc, graduation, 1939 Vol. 5 no. 7
MSc. Graduation, 1951 Vol. 5 no. 12
DSc, graduation, 1963 Vol. 5 no. 14/15, vol. 8 no. 1
APCOM Vol. 8 no. 2
SME of AIME Vol. 8 no. 2, vol. 9 no. 2
D.Eng. (HC), Pretoria 1981 Vol. 8 no. 5
S.A. Akademie 1982 Vol. 8 no. 4
State President 1982 Vol. 9, no. 3, 5
DSc. (HC) UNISA 1996 Vol. 9 no. 6
DSc. (HC) Moscow State 1996 Vol. 12, No.1, 7th article
Other Vol. 9, no. 4, Vol.12 no. 1

Contributions to Discussions on other Papers:
McGillivray R.B. On computer mapping Vol. 12 no. 16
Cook, N.G. On rock cutting Vol. 2, no. 17

Articles and Press cuttings:
Trend Surface Analysis 4/1969 Vol.3 no. 7
Evaluating Mining Ventures 7/1970 Vol. 3 no. 8
Diverse Vol.4, nos. 3, 5/8, 10, 24
Vol. 5, nos. 18/23, 26/44, 48/49, 51 Vol. 6, no. 2b

Economic topics:
Book review: Frankel, H.S. – S.A. Gold Mining Industry -- Vol.2, No.11
Minning Taxation Vol. 4, Nos. 1/2, 11/13, 15, 20/21 Vol. 6, no. 5
Risk Analysis Vol. 4, no. 23
General Vol. 5, no.17, 24/25, 45/46

Book Reviews:
David M, 4/1978  
McKenzie B.W. on mineral exploration, 1982  
Diverse  
Vol. 4, no. 22  
Vol. 6, no. 2c  
Vol. 10, no. 2