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12<sup>th</sup> International Kimberlite Conference Extended Abstract No. 12IKC-XXX, 2024

## Diamonds, Earth's Mantle and 12 IKC in Yellowknife

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**J. Barry Dawson<sup>1</sup>, Henry O. A. Meyer<sup>2</sup> and F. R. (Joe) Boyd<sup>3</sup>**

<sup>1</sup> Institution, City, Country, email address

<sup>2</sup> Purdue University, West Lafayette, USA, henry@meyer.edu

<sup>3</sup> Carnegie Institution, Washington, USA, joe@boyd.com

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### Introduction

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### Analytical Results

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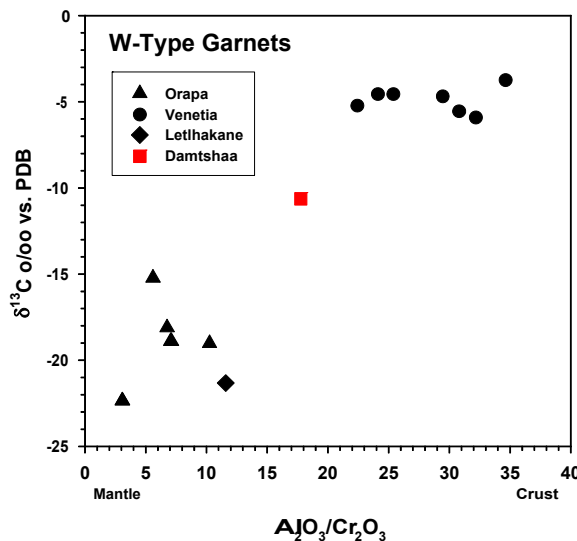


Figure 1: Al<sub>2</sub>O<sub>3</sub>/Cr<sub>2</sub>O<sub>3</sub> ratio of websteritic garnets and the carbon isotopic composition the host diamond.

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Sample	MW64	MW65	MW67	MW70	MW82	MW83	MW84
<b>Mineral</b>	garnet	garnet	garnet	garnet	garnet	garnet	garnet
<b>Paragenesis</b>	h	h	h	h	l	l	h
<b>Garnet Class</b>	G10D	G10D	G10D	G10D	G9	G9	G10D
<b>P2O5</b>	0.00	0.01	0.01	0.02	0.02	0.05	0.04
<b>SiO2</b>	41.46	40.52	41.06	41.38	41.63	40.74	41.38
<b>TiO2</b>	0.01	0.02	0.05	0.17	0.07	0.32	0.00
<b>Al2O3</b>	18.51	12.81	15.98	17.30	19.24	16.54	18.19
<b>Cr2O3</b>	7.53	14.77	11.12	8.74	6.12	9.34	7.48
<b>FeO</b>	5.81	6.61	5.81	6.71	5.83	6.77	6.38
<b>MnO</b>	0.28	0.38	0.29	0.38	0.24	0.35	0.33
<b>NiO</b>	0.01	0.01	0.00	0.01	0.01	0.02	0.01
<b>MgO</b>	23.20	21.85	23.32	21.67	21.00	20.03	21.23
<b>CaO</b>	2.45	2.73	1.86	3.86	5.78	5.99	4.92
<b>Na2O</b>	0.01	0.04	0.00	0.00	0.02	0.04	0.02
<b>K2O</b>	0.00	0.01	0.00	0.01	0.00	0.01	0.00
<b>Total</b>	99.27	99.75	99.51	100.25	99.94	100.19	99.99

**Table 1:** Major element analyses (wt.%) of garnet inclusions in Mwadui diamonds.

## References

- Deines P, Gurney JJ, Harris JW (1984) Associated chemical and carbon isotopic composition variations in diamonds from Finsch and Premier Kimberlite, South-Africa. *Geochim Cosmochim Acta* 48(2):325-342
- Meyer HOA (1987) Inclusions in diamond. In: Nixon PH (ed) *Mantle xenoliths*, John Wiley & Sons Ltd., Chichester, pp 501-522

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