

## Arend J Hoogervorst<sup>1</sup>

B.Sc.(Hons), MPhil., Pr.Sci. Nat., MIEEnvSci., C.Env., MIWM

# Environmental Audits Undertaken, Lectures given, and Training Courses Presented<sup>2</sup>

### A) AUDITS UNDERTAKEN (1991 – Present)

(Summary statistics at end of section.)

#### Key

ECA - Environmental Compliance Audit

EMA - Environmental Management Audit

EDDA -Environmental Due Diligence Audit

EA- External or Supplier Audit or Verification Audit

HSEC – Health, Safety, Environment & Community Audit

(SHE) – denotes safety and occupational health issues also dealt with

\* denotes AJH was lead environmental auditor

# denotes AJH was contracted specialist local environmental auditor for overseas environmental consultancy, auditing firm or client

+ denotes work undertaken as an ICMI-accredited Lead Auditor (Cyanide Code) No of days shown indicates number of actual days on site for audit.

[number] denotes number of days involved in audit preparation and report write up.

#### 1991

\*2 day [4] ECA - AECI Chlor-Alkali Plastics, Umbogintwini, KwaZulu-Natal, South Africa. November 1991.

\*2 day [4] ECA - AECI Chlor-Alkali Plastics- Environmental Services, Umbogintwini, KwaZulu-Natal, South Africa. November 1991.

\*2 Day [4] ECA - Soda Ash Botswana, Sua Pan, Botswana. November 1991.

#### 1992

\*2 Day [4] EA - Waste-tech Margolis, hazardous landfill site, Gauteng, South Africa. February 1992.

\*2 Day [4] EA - Thor Chemicals Mercury Reprocessing Plant, Cato Ridge, KwaZulu-Natal, South Africa. March 1992.

2 Day [4] EMA - AECI Explosives Plant, Modderfontein, Gauteng, South Africa. March 1992.

\*2 Day [4] EMA - Anikem Water Treatment Chemicals, Umbogintwini, KwaZulu-Natal, South Africa. March 1992.

\*2 Day [4] EMA - AECI Chlor-Alkali Plastics Operations Services Group, Midland Factory, Sasolburg. March 1992.

\*2 Day [4] EMA - SA Tioxide factory, Umbogintwini, KwaZulu-Natal, South Africa. April 1992.

\*2 Day [4] ECA - Soda Ash Botswana, Sua Pan, Botswana. May 1992.

\*2 Day [4] EMA - Kynoch Fertilisers, Umbogintwini, KwaZulu-Natal, South Africa. June 1992.

\* 1 Day [2] EMA - Swimline Pool Products, Halfway House, Gauteng. June 1992.

\* 1 Day [2] EMA - Dulux Paints, Umbogintwini, KwaZulu-Natal, South Africa. June 1992.

\*2 Day [4] EMA - Kynoch Fertilisers, Milnerton, Cape Town, South Africa. July 1992.

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<sup>2</sup> Updated to 1<sup>st</sup> November 2018.

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\*2 Day [4] EA - Wadechem Holfontein Hazardous Waste landfill, Springs, Gauteng, South Africa. August 1992.

\*2 Day [4] EMA - Dulux Paints, Struandale, Port Elizabeth, Eastern Cape, South Africa. October 1992.

\*2 Day [4] ECA - Soda Ash Botswana, Sua Pan, Botswana. November 1992.

\*2 Day [4] EMA - South African Nylon Spinners (SANS), Bellville, Cape Town, South Africa. December 1992.

### **1994**

\*2 Day [5] ECA - Kellogg South Africa, Springs, Gauteng, South Africa. 18-19 August 1994.

### **1995**

#3 Day [5] EMA - ESKOM (for KPMG), External Environmental Audit, Johannesburg, Gauteng, South Africa, 24-26 July 1995.

### **1996**

\* 1 Day [3] ECA - Polifin Mercury Waste Disposal Site, Polifin Factory, Umbogintwini, KwaZulu-Natal, South Africa, 3rd January 1996.

\* 1 Day [2] EMA - KwaZulu Finance Corporation Landfill Site, Isethebe, KwaZulu-Natal, 3rd April 1996.

\*2 Day [5] EMA/ECA - Robertsons Spices (Knorr), Prospecton, KwaZulu-Natal, South Africa, 12-13th June 1996.

\*2 Day [4] EMA (preliminary) - Alpha (Stone & Cement), Western Cape sites, South Africa, 6-7th November 1996.

\*3 Day [6] EMA (preliminary) - Alpha (Stone & Cement), Gauteng sites, South Africa, 11-13th November 1996.

\*4 Day [8] EMA (preliminary) - Alpha (Stone & Cement), Gauteng sites, South Africa, 18-21st November 1996.

\*4 Day [8] EMA (preliminary) - Alpha (Stone & Cement), KwaZulu-Natal sites, South Africa, 25-28th November 1996.

### **1997**

\* 1 Day [3] EDDA - Mondi Wattle Processing Plant (for SA Wattle Growers Union), Hermansburg, KwaZulu-Natal, South Africa, 20th February 1997.

\* 1 Day [3] EDDA - Mondi Wattle Processing Plant (for SA Wattle Growers Union), Iswepe, Mpumalanga, South Africa, 24th February 1997.

\*3 Day [6] EMA (preliminary) - Alpha (Stone & Cement), Cape Town, Kimberley, South Africa, 2-4 April 1997.

\*3 Day [6] EMA/ECA - Robertsons Spices (Knorr), Alrode, Gauteng, South Africa, 24-26th June 1997.

#2 Day [4] EDDA/ECA (for Ford Motor Company) - Auto Cable Industries, Brits, Gauteng, South Africa, 30th September - 1st October 1997.

#2 Day [4] EDDA/ECA (for Ford Motor Company) - Auto Cable Industries, Port Elizabeth & East London, Eastern Cape, South Africa, 7th-8th October 1997.

#5 Day [5] EMA - South African Economic Development Fund (for USAID), Johannesburg, Gauteng, South Africa, 8-12 December 1997.

### **1998**

\* 1 Day [1] EMA (Pre-audit before corporate EMA) - S C Johnson & Son, Rosslyn, Gauteng, South Africa. 19th January 1998.

\*3 day [6] ECA - Kellogg South Africa, Springs, Gauteng, South Africa. 16-18 February 1998.

\*6 day [15] ECA - Umgeni Water, Pietermaritzburg and depots throughout KwaZulu-Natal, South Africa, between 20th and 29th April 1998.

\* 1 day [1] EDDA (for Richards Bay Bulk Storage) - Island View Bulk Storage Facility, Durban Harbour, KwaZulu-Natal, South Africa, 30th April 1998.

\*3 day [6] ECA - South African Breweries, Prospecton, KwaZulu-Natal, South Africa, 8-10 July 1998.

\*4 day [8] ECA - Pipeline Permit Compliance Audit - AECI Operational Services, Umbogintwini, KwaZulu-Natal, South Africa, 16-19 November 1998.

### **1999**

#8 day [5] ECA - Environmental Report Verification Audit, Shell & BP refinery, Durban, South Africa. February 1999. Sub-contracted environmental expert to PriceWaterhouseCoopers.

\*2 Day [3] ECA - Walkabout Environmental Audit, part of a training programme for employee environmental representatives, Hulett Aluminium, Pietermaritzburg, 3-4th March 1999.

\* 5 day [3] EMA - Matola Pesticides Preparation and Waste Station, Maputo, Mozambique. For the Mozambican Ministry of Environmental Affairs & DANIDA, 15-19 November 1999.

\* 3 day [1] ECA - Matola Pesticides Preparation and Waste Station, Maputo, Mozambique. For the Mozambican Ministry of Environmental Affairs & DANIDA, 29<sup>th</sup> November-2 December 1999.

### **2000**

\* 3 day [2] ECA - Matola Pesticides Preparation and Waste Station, Maputo, Mozambique. For the Mozambican Ministry of Environmental Affairs & DANIDA, 17<sup>th</sup> - 21 January 2000

\* 2 day [2] EA - Goswell Developments (Dross treatment and disposal), Cato Ridge. Supplier Audit for Hillside Aluminium. 25-26th January 2000.

#3 day [2] EA - Joint, sampled Environmental Data Verification Exercise with PriceWaterhouseCoopers for Shell of Sapref Refinery Durban. January/February 2000

### **2001**

\*2 Day [2] Environmental Report Verification Audit, Hillside Aluminium Smelter, Richards Bay. August 2001.

\*2 day [2] Environmental Report Verification Audit, Umgeni Water, Pietermaritzburg, South Africa. October 2001

\*5 days [2] EMA and review and evaluation of EMP, Morila Gold Mine, Mali, West Africa. 23-27 July 2001

\*3 day [2] EA – and development of Aspects and Impacts Register. Yatela Gold Mine, Mali, West Africa, November, 2001

\*5 day [3] EMA – Sadiola Gold Mine, Mali, West Africa. Focussing on EMS, Community Development & relations, and Technical aspects of Closure Planning. November 2001

### **2002**

\*1 day[1] ECA – DWAF Licence Audit, UOS, Umbogintwini, South Africa. February 2002

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\* 30 day [10] EMA/ECA – Environmental Audit/Review of the South Africa Region Mining Operations of AngloGold. February-May 2002

# 2 day [1] EDDA – Somta Tools, Pietermaritzburg, South Africa. May 2002.

\*4 day [2] EMA – Navachab Gold Mine, Karibib, Namibia. June 2002

#4 day [2] EDDA – Valley Irrigation, Nigel, South Africa. December 2002

### 2003

\*2 day [2] ECA – Verification of UOS Site SHE/Sustainability Report, Umbogintwini, South Africa. February 2003

\* 1 day[1] ECA – DWAF Licence Audit, UOS, Umbogintwini, South Africa. February 2003

\*5 day [3] EMA – Metallurgy SA, AngloGold, External Review of implementation of paperless EMS, March 2003

\* 1 day [1] EDDA – Close out Audit, Valley Irrigation, Nigel, South Africa. June 2003

# 2 day [1] EA – Western Chrome Mines (BHP Billiton). South Africa.19-21 August 2003

# 2 day [1] EA – Ferrometals (BHP Billiton). South Africa.21-22 August 2003

# 2 day [1] EA – Tubatse Steelpoort (BHP Billiton). South Africa.24-26 August 2003

# 2 day [1] EA – Middelburg Ferrochrome (BHP Billiton), South Africa. 27-29 August 2003

### 2004

# 2 Day [1] EA – South Witbank Colliery (Xstrata), South Africa. 3-4 February 2004

# 2 Day [1] EA – Wonderkop Chrome Smelter (Xstrata), South Africa. 9-10 February 2004

# 2 Day [1] EA – Waterval Chrome Mine (Xstrata), South Africa. 11-12 February 2004

\*3 Day [1] EA – Sustainability Report Verification, Umbogintwini Industrial Complex, South Africa.- 23-25 March 2004

# 1 Day [1] EDDA (SHE) – Eastern Chrome Mines (BHP Billiton), South Africa. 15 June 2004

# 1 Day [1] EDDA (SHE) – Middelburg Ferrochrome (BHP Billiton), South Africa. 17 June 2004

# 1 Day [1] EDDA (SHE) – Tubatse Chrome Smelter (BHP Billiton), South Africa. 21 June 2004

# 1 Day [1] EA (Verification- Sustainability Report) – Eastern Chrome Mines (BHP Billiton), South Africa. 12 August 2004

# 1 Day [1] EA (Verification- Sustainability Report) – Tubatse Chrome Smelter (BHP Billiton), South Africa. 13 August 2004

#1 Day [1] EA (Verification- Sustainability Report) – Middelburg Chrome (BHP Billiton), South Africa. 16 August 2004

#1 Day [1] EA (Verification- Sustainability Report) – Western Chrome Mines (BHP Billiton), South Africa.17 August 2004

#2 Day [0] EA (Witness Audit for potential Responsible Care Auditors) – Omnia, Sandton, South Africa. 21-22

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October 2004

\*#2 day[1] ECA (EHS Compliance Audit) – Kennametal, Johannesburg, South Africa. 8-9 December 2004

### 2005

#5 day [0] HSEC (HSEC Baseline Audit) Xstrata Kroondal Chrome Mine, Rustenburg, South Africa. 24-28 January 2005

#5 day [0] HSEC (HSEC Baseline Audit ) Xstrata Waterval Chrome Mine, Rustenburg, South Africa. 31 January-4 February 2005

#4 Day [1] EA – Sustainability Report Verification, Umbogintwini Industrial Complex, KZN, South Africa. - 22-25 February 2005

#2 Day [0] EA (Witness Audit for potential Responsible Care Auditors) – Omnia, Sasolburg, South Africa. 16-17 March 2005

\*#4 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Tselentis Colliery, South Africa. 2-6 May 2005

\*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Wonderkop Chrome Smelter, South Africa. 27 June-1 July- 6 2005

\*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Boshhoek Chrome Smelter, South Africa. 4-8 July-6 2005

\*#4 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Lion Chrome Smelter Project, South Africa. 18-22 July 2005

\*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Goedgevonden/Waterpan Colliery, South Africa. 15-19 August July 2005

\*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Thorncliffe/Helena Chrome Mines, South Africa. 25-29 July 2005

\*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Arthur Taylor Colliery, South Africa. 22-26 August 2005

\*#3 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Rietvly Silica Mine (Satellite site), South Africa. 19-22 September 2005

\*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Rhovan Vanadium Mine, South Africa. 24<sup>th</sup>-28<sup>th</sup> October 2005

\*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Chartech/ACG Carbon Plants, South Africa. 14<sup>th</sup>-18<sup>th</sup> November 2005

\*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Horizon Chrome Mine, South Africa. 21<sup>st</sup> – 25<sup>th</sup> November 2005

\*3 Day [2] ECA (EMP Performance Assessment) – De Beers Finsch Diamond Mine, South Africa. 11-14 December 2005

### 2006

\*#5 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Lydenburg Chrome Smelter, South Africa. 29<sup>th</sup> May - 2<sup>nd</sup> June 2006

\*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – Mponeng Gold Plant, South Africa. – 12<sup>th</sup> –14<sup>th</sup> June 2006

\*#6 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Tweefontein Coal Division, South Africa. 19<sup>th</sup> –23<sup>rd</sup>

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June 2006

\*+4 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – Savuka Gold Plant, South Africa. – 26<sup>th</sup>–28<sup>th</sup> June 2006

\*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – Naligwa Gold Plant, – 30<sup>th</sup> June, 1<sup>st</sup> July, 3<sup>rd</sup> July 2006 South Africa.

\*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – EGAF Gold Plant, South Africa.– 4<sup>th</sup>-6<sup>th</sup> July 2006

\*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – Kopanang Gold Plant, South Africa. – 7<sup>th</sup>–8<sup>th</sup> and 17<sup>th</sup> July 2006

\*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – West Wits Gold Plant – South Africa - 18<sup>th</sup>–20<sup>th</sup> July 2006

\*#5 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Lion Chrome Smelter, South Africa. 24<sup>th</sup>–28<sup>th</sup> July – 2006

\*#5 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Wonderkop Chrome Smelter, South Africa. 21<sup>st</sup>–25<sup>th</sup> August – 2006

\*#9 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Mpumalanga Coal Division, South Africa. 10-19<sup>th</sup> September 2006

\*#5 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Horizon Chrome Mine, South Africa. 13-17<sup>th</sup> November 2006

\*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Production & Transportation) – Sasol Polymers, Cyanide Plant, Midland Factory, Sasolburg, 20-25<sup>th</sup> November 2006

**2007**

\*#5 Day [2] International Cyanide Code Audit (Gap Analysis) – Goldfields Ghana Tarkwa Gold Mine –22<sup>nd</sup> – 26<sup>th</sup> January 2007

\*#4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Abosso Damang Gold Mine – Ghana – 29<sup>th</sup> January- 1 February 2007

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields South Deep Gold Mine – 12<sup>th</sup>-16<sup>th</sup> February 2007

\*#4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Vaal River North West Gold Plant, Vaal River, South Africa, 13<sup>th</sup>-16<sup>th</sup> March 2007

\*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Vaal River Kopanang Gold Plant, Vaal River, South Africa, 26<sup>th</sup> – 30<sup>th</sup> March 2007

\*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Vaal River East Gold Acid Float (EGAF) Plant, Vaal River, South Africa, 9<sup>th</sup> -13<sup>th</sup> April 2007

\*#4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Naligwa Plant, Vaal River, South Africa, 23<sup>rd</sup> -26<sup>th</sup> April 2007

\*#4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Mponeng Plant, West Wits, South Africa, 8<sup>th</sup> – 11<sup>th</sup> May 2007

\*#4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti,

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Savuka Plant, West Wits, South Africa, 14<sup>th</sup> – 17<sup>th</sup> May 2007

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Beatrix 1 Gold Plant (Gold Mine) – South Africa – 3<sup>rd</sup> – 6<sup>th</sup> July 2007

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Beatrix 2 Gold Plant (Gold Mine) – South Africa – 9<sup>th</sup> – 12<sup>th</sup> July 2007

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Driefontein 1 Gold Plant (Gold Mine) – South Africa – 24<sup>th</sup> – 27<sup>th</sup> July 2007

\*#+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields St Ives Gold Plant (Gold Mine) – Kambalda, WA, Australia – 6<sup>th</sup> – 10<sup>th</sup> August 2007

\*#+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Agnew Gold Plant (Gold Mine) – South Africa – 13<sup>th</sup> – 17<sup>th</sup> August 2007

\*#+3 Day [1] International Cyanide Code Audit (Pre-audit) – Goldfields Ghana Tarkwa Gold Mine, Tarkwa, Ghana – 27<sup>th</sup> – 29<sup>th</sup> August 2007

\*#+2 Day [1] International Cyanide Code Audit (Pre-audit) – Goldfields Abosso Damang Gold Mine, Ghana – 30<sup>th</sup> – 31<sup>st</sup> August 2007

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Kloof 1 Gold Plant (Gold Mine) – South Africa – 11<sup>th</sup> – 14<sup>th</sup> September 2007

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Kloof 2 Gold Plant (Gold Mine) – South Africa – 17<sup>th</sup> – 20<sup>th</sup> September 2007

# 10 day [2] EMA/ECA – Corporate Environmental Review Programme (CERP) of the West Wits Region of South Africa Underground Mining Operations of AngloGold Ashanti. 25<sup>th</sup> September – 4<sup>th</sup> October 2007

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Driefontein No 2 Gold Plant (Gold Mine) – South Africa – 8<sup>th</sup> – 12<sup>th</sup> October 2007

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Driefontein No 3 Gold Plant (Gold Mine) – South Africa – 15<sup>th</sup> – 19<sup>th</sup> October 2007

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony No 1 Gold Plant (Gold Mine) Welkom – South Africa – 29<sup>th</sup> October – 2<sup>nd</sup> November 2007

\*#+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Morila Gold Mine , Mali – 19<sup>th</sup> – 22<sup>th</sup> November 2007

\*#+3 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Yatela Gold Mine , Mali – 24<sup>th</sup> – 26<sup>th</sup> November 2007

\*#+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Sadiola Gold Mine , Mali – 26<sup>th</sup> – 29<sup>th</sup> November 2007

## 2008

\*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Goldfields Abosso Damang Gold Mine, Ghana, 14<sup>th</sup> – 18<sup>th</sup> January 2008

\*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Ghana Tarkwa Gold Mine, Tarkwa, Ghana, 21<sup>st</sup> – 25<sup>th</sup> January 2008

\*#+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Navachab Gold Mine Namibia – 4<sup>th</sup> – 8<sup>th</sup> February 2008

\*# +6 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Geita Gold Mine, Tanzania – 1 5<sup>th</sup> – 20<sup>th</sup> February 2008

\*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony Doornkop Gold Mine, South Africa – 25<sup>th</sup> – 29<sup>th</sup> February 2008

\*# +5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Iduapriem Gold Mine , Ghana – 9<sup>th</sup> – 1 3<sup>th</sup> March 2008

\*# +4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Transportation) – Vehrad Transport & Haulage Company, Accra, Ghana, 17<sup>th</sup> – 20<sup>th</sup> March 2008

\*+5 Day [2] International Cyanide Code Audit (Pre-audit) – Goldfields Beatrix 1 & 2 Gold Plants, South Africa – 31<sup>st</sup> March – 4<sup>th</sup> April 2008

\*+3 Day [3] International Cyanide Code Audit (Pre-audit) – Goldfields South Deep Gold Plants South Africa – 7<sup>th</sup> – 9<sup>th</sup> April 2008

\*+6 Day [3] International Cyanide Code Audit (Pre-audit) – Goldfields Driefontein 1,2 and 3 Gold Plants, South Africa – 16<sup>th</sup> – 24<sup>th</sup> April 2008

\*+5 Day [2] International Cyanide Code Audit (Pre-audit) – Goldfields Kloof 1 & 2 Gold Plants South Africa – 5<sup>th</sup> – 9<sup>th</sup> May 2008

\*# +2 Day [1] International Cyanide Code Audit (Pre-audit) – Goldfields St Ives Gold Plant, Australia 19<sup>th</sup> – 21<sup>st</sup> May 2008

\*+2 Day [1] International Cyanide Code Audit (Pre-audit) – Goldfields Agnew Gold Plant, Australia 21<sup>st</sup> – 24<sup>th</sup> May 2008

\*# +5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region, Siguiri Gold Mine, Guinea. 2<sup>nd</sup> – 6<sup>th</sup> June 2008

\*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Central Gold Plant , South Africa. 9<sup>th</sup> – 13<sup>th</sup> June 2008

\*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Kalgold Gold Plant , South Africa. 16<sup>th</sup> – 20<sup>th</sup> June 2008

\*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Evander Gold Plant , South Africa. 23<sup>rd</sup> – 27<sup>th</sup> June 2008

\*# +5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields South Deep Gold Mine, South Africa, 30<sup>th</sup> June – 4<sup>th</sup> July 2008

\*# +5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Beatrix 2 Gold Plant, South Africa, 4<sup>th</sup> – 11<sup>th</sup> July 2008

\*# +5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Beatrix 1 Gold Plant, South Africa, 21<sup>st</sup> – 25<sup>th</sup> July 2008

\*# +12 Day [3] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Driefontein 1,2 & 3 Gold Plants, South Africa, 4<sup>th</sup> – 20<sup>th</sup> August 2008

\*# +8 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region, Obuasi Gold Mine , Guinea. 25<sup>th</sup> – 2<sup>nd</sup> September 2008



\*#+5 Day [2] International Cyanide Code Audit (Pre-audit) – Goldfields St Ives Gold Plant, Australia. 8<sup>th</sup> – 12<sup>th</sup> September 2008

\*#+5 Day [2] International Cyanide Code Audit (Pre-audit) – Goldfields Agnew Gold Plant, Australia. 1 5<sup>th</sup> – 1 9<sup>th</sup> September 2008

\*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Kloof 1 Gold Plant, South Africa, 29<sup>th</sup> September – 3<sup>rd</sup> October 2008

\*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Kloof 2 Gold Plant, South Africa, 29<sup>th</sup> September – 3<sup>rd</sup> October 2008

\*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti Africa Region, Siguiri Gold Mine , Guinea. 20<sup>th</sup> – 24<sup>th</sup> October 2008

\*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti Africa Region, Yatela Gold Mine , Mali. 27<sup>th</sup> – 31<sup>st</sup> October 2008

\*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti Africa Region, Sadiola Gold Mine , Mali. 3<sup>rd</sup> – 7<sup>th</sup> November 2008

\*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti Africa Region, Navachab Gold Mine , Namibia. 1 7<sup>th</sup> – 21<sup>st</sup> November 2008

## 2009

\*#+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Obuasi Gold Mine, Ghana – 4<sup>th</sup> – 10<sup>th</sup> January 2009

\*#+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Iduapriem Gold Mine, Ghana – 11<sup>th</sup> – 15<sup>th</sup> January 2009

\*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Target Gold Plant , South Africa. 9<sup>th</sup> – 13<sup>th</sup> February 2009

\*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Saaiplaas Gold Plant , South Africa. 16<sup>th</sup> – 20<sup>th</sup> February 2009

\*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Target Gold Plant , South Africa. 9<sup>th</sup> – 13<sup>th</sup> February 2009

\*3 Day [2] EDDA Audit – Petroleum Fine Products, Pinetown, South Africa – 23<sup>rd</sup> -24<sup>th</sup> February 2009 & 2<sup>nd</sup> April 2009

\*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Production & Transportation) – Sasol Polymers, Cyanide Plant, Midland Factory, Sasolburg, South Africa. 7<sup>th</sup> – 11<sup>th</sup> September 2009

\*+ 6 Day [2] ECA Third Party Cyanide Spill Investigation Review, Newmont, Ghana. 21<sup>st</sup> -25<sup>th</sup> November 2009.

## 2010

\*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Elandsrand Gold Plant, South Africa – 18<sup>th</sup> – 22<sup>nd</sup> January 2010

\*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony One Plant (Gold Mine), South Africa – 25<sup>th</sup> – 29<sup>th</sup> January 2010

\*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Target Plant (Gold Mine), South Africa – 8<sup>th</sup> – 12<sup>th</sup> February 2010

\*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Central Plant (Gold Mine), South Africa – 15<sup>th</sup> – 19<sup>th</sup> January 2010

\*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony One Plant (Gold Mine), South Africa – 25<sup>th</sup> – 29<sup>th</sup> January 2010

\*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Kalgold Gold Plant, South Africa. 1<sup>st</sup> – 5<sup>th</sup> March 2010

\*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Saaiplaas Plant (Gold Mine), South Africa – 8<sup>th</sup> – 12<sup>th</sup> March 2010

\*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Evander-Kinross Plant (Gold Mine), South Africa – 15<sup>th</sup> – 19<sup>th</sup> March 2010

\*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Doornkop Plant (Gold Mine), South Africa – 12<sup>th</sup> – 16<sup>th</sup> April 2010

\*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Kopanang Gold Plant, South Africa, 10<sup>th</sup> – 14<sup>th</sup> May 2010

\*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, EGAF Gold Plant, South Africa, 17<sup>th</sup> – 21<sup>st</sup> May 2010

\*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Nologwa Gold Plant, South Africa, 31<sup>st</sup> May – 4<sup>th</sup> June 2010

\*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Mponeng Gold Plant, South Africa, 7<sup>th</sup> – 11<sup>th</sup> June 2010

\*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Savuka Gold Plant, South Africa, 28<sup>th</sup> June – 2<sup>nd</sup> July 2010

\*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, West Gold Plant, South Africa, 5<sup>th</sup> – 9<sup>th</sup> July 2010

\*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, South Deep Gold Plant, South Africa, 2<sup>nd</sup> – 4<sup>th</sup> August 2010

\*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Tarkwa Gold Mine, Ghana, 6<sup>th</sup> – 8<sup>th</sup> August 2010

\*+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Damang Gold Mine, Ghana, 9<sup>th</sup> – 10<sup>th</sup> August 2010

\*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Beatrix 1 & 2 Gold Plants, South Africa, 13<sup>th</sup> – 15<sup>th</sup> August 2010

\*+5 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Driefontein 1, 2 & 3 Gold Plants, Ghana, 27<sup>th</sup> September – 1<sup>st</sup> October 2010

\*+5 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Newmont, Ahafa Mine, Ghana, 11<sup>th</sup> - 15<sup>th</sup> October 2010

\*+5 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) and OHSAS 18001/ISO 14001 Gap Analysis – Vehrad Transport & Haulage, Accra, Ghana, 18<sup>th</sup> – 22<sup>nd</sup> October 2010.

\*+4 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Kloof 1 and 2 Gold Plants, South Africa, 15<sup>th</sup> – 18<sup>th</sup> November 2010.

**2011**

\*#+5 Day [1] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Barrick Africa, Tulawaka Gold Mine, Tanzania, 21<sup>st</sup> – 25<sup>th</sup> February 2011.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Newmont, Ahafo Gold Mine, Ghana, 7<sup>th</sup> – 11<sup>th</sup> March 2011.

\*#+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Transportation) – Vehrad Transport & Haulage Company, Accra, Ghana, 14<sup>th</sup> – 17<sup>th</sup> March 2011.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields Damang Gold Mine, Ghana, 2<sup>nd</sup> – 6<sup>th</sup> May 2011.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields Tarkwa Gold Mine, Ghana, 9<sup>th</sup> – 15<sup>th</sup> May 2011.

\*#+5 Day [1] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Barrick Africa, Bulyanhulu Gold Mine, Tanzania, 1<sup>st</sup> – 4<sup>th</sup> June 2011.

\*#+5 Day [1] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Barrick Africa, Buzwagi Gold Mine, Tanzania, 6<sup>th</sup> – 10<sup>th</sup> June 2011.

\*#+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, St. Ives Gold Mine, Australia, 4<sup>th</sup> – 6<sup>th</sup> July 2011

\*#+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Agnew Gold Mine, Australia, 6<sup>th</sup> – 8<sup>th</sup> July 2011

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Barrick Africa Tulawaka Gold Mine, Tanzania, 18<sup>th</sup> – 22<sup>nd</sup> July 2011.

\*#+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – AngloGold Ashanti, Sadiola Gold Mine, Mali, 8<sup>th</sup> – 10<sup>th</sup> August 2011

\*#+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – AngloGold Ashanti, Siguiiri Gold Mine, Guinea Conakry, 3<sup>rd</sup> – 5<sup>th</sup> September 2011

\*#+5 Day [1] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – AngloGold Ashanti, Iduapriem Gold Mine, Ghana, 3<sup>rd</sup> – 7<sup>th</sup> October 2011.

\*#+3 Day [2] International Cyanide Code (ICMI) Certification Audit (Transportation) – Tanker Services Specialised Products Division, Vanderbijlpark, South Africa, 12<sup>th</sup> – 14<sup>th</sup> October 2011.

\*#+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – AngloGold Ashanti, Navachab Gold Mine, Namibia, 18<sup>th</sup> – 20<sup>th</sup> October 2011.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields South Deep Gold Mine, South Africa, 24<sup>th</sup> – 28<sup>th</sup> October 2011.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields Beatrix Gold Mine, South Africa, 7<sup>th</sup> – 11<sup>th</sup> November 2011.

\*#+5 Day [2] International Cyanide Code (ICMI) Pre-Recertification Audit (Gold Mine) – African Barrick Gold – North Mara Mine, Tanzania, 21- 25 November 2011.

\*#+3 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – AngloGold Ashanti – Geita Mine, Tanzania, 8 – 12 December 2011.

**2012**

\*#5 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – AngloGold Ashanti – Obuasi Mine, Ghana, 16 – 20 January 2012.

\*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – African Barrick Gold Bulyanhulu Mine, Tanzania, 9 – 13 February 2012.

\*#9 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine), Gold Fields KDC West Gold Mine (Formerly Driefontein Gold Mine, incorporating Driefontein 1, 2 and 3 Gold Plants) South Africa, 27th February – 6th March 2012

\*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Kusalethu Mine, South Africa, 7 – 8 March 2012.

\*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony One Plant Mine, South Africa, 28th - 29th March 2012.

\*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Target Mine, South Africa, 12 – 13 April 2012.

\*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Saaiplaas Mine, South Africa, 16 – 17 April 2012.

\*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Goldfields St Ives Mine, W. Australia, 23rd – 27th April 2012.

\*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Goldfields Agnew Mine, W. Australia, 30th April – 4th May 2012.

\*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – African Barrick Gold – North Mara Mine, Tanzania, 14th – 18th May 2012.

\*#3 Day [1] SASOL Polymers International Cyanide Code (ICMI) Pre-Recertification Audit (Production) – Sasolburg, South Africa, 23rd – 25th May 2012.

\*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Yatela Mine, Mali, 5 – 9 June 2012.

\*#1 Day [2] International Cyanide Code (ICMI) review and briefing for cyanide transportation and solid cyanide storage facility, CSTT, Kedougou, Senegal 10 June 2012.

\*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields Kloof Gold Mine, South Africa, 18th – 22nd June 2012.

\*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Central Mine, South Africa, 28th – 29th June 2012.

\*#5 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Harmony Joel Gold Mine, South Africa, 2nd – 6th July 2012.

\*#3 Day [2] International Cyanide Code (ICMI) Production Audit, Cyanide and Sparging, Vehrad Transport & Haulage Co Ltd, (Production) - Accra, Ghana, 11th – 13th July 2012.

\*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Evander Mine, South Africa, 6th & 7th August 2012.

\*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony, Doornkop Mine, South Africa, 9th – 10th August 2012.

\*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Sadiola Mine, Mali 5th – 9th November 2012.

\*+ 8 Days [6] International Cyanide Code (ICMI) Pre-Audit “Health Checks” 8 sites, AngloGold Ashanti, South Africa, 26<sup>th</sup> November – 7<sup>th</sup> December 2012.

### 2013

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Siguiri Gold Mine, Guinea Conakry, 28<sup>th</sup> January – 2<sup>nd</sup> February 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – African Barrick Gold, Buzwagi Gold Mine, Tanzania, 18<sup>th</sup> February – 22<sup>nd</sup> February 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Navachab Mine, Namibia, 11<sup>th</sup> – 15<sup>th</sup> March 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – Harmony, Joel Gold Mine, South Africa, 8<sup>th</sup> – 12<sup>th</sup> April 2013.

\*+4 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Ma’Aden Gold & Base Metals, Al Amar Gold Mine, Saudi Arabia, 20<sup>th</sup> – 23<sup>rd</sup> April 2013.

\*+ 4 Days [2] International Cyanide Code (ICMI) Pre-Audit “Health Check” Newmont Ahafo Gold Mine, Ghana, 6<sup>th</sup> – 8<sup>th</sup> May 2013.

\*+3 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Ma’Aden Gold & Base Metals, Al Mahad Gold Mine, Saudi Arabia, 16<sup>th</sup> – 18<sup>th</sup> May 2013.

\*+6 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Ma’Aden Gold & Base Metals, Bulgah & Sukhaybarat Gold Mines, Saudi Arabia, 20<sup>th</sup> – 25<sup>th</sup> May 2013.

\*+4 Day [2] International Cyanide Code (ICMI) Health Check - Transportation – Vehrad Haulage and Transport, Ghana, 15<sup>th</sup> – 19<sup>th</sup> July 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony Evander Gold Mine, South Africa, 26<sup>th</sup> – 30<sup>th</sup> August 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony Kusasalethu Gold Mine, South Africa, 9<sup>th</sup> – 13<sup>th</sup> September 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony One Gold Plant, South Africa, 16<sup>th</sup> – 20<sup>th</sup> September 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony, Target Gold Mine, South Africa, 30<sup>th</sup> September – 4<sup>th</sup> October 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony, Saaiplaas Gold Plant, South Africa, 7<sup>th</sup> – 11<sup>th</sup> October 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony Central Gold Plant, South Africa, 21<sup>st</sup> – 25<sup>th</sup> October 2013.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony, Doornkop Gold Mine, South Africa, 4<sup>th</sup> – 8<sup>th</sup> November 2013.

\*#+6 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – AngloGold Ashanti, Obuasi Gold Mine, Ghana, 18<sup>th</sup> – 23<sup>rd</sup> November 2013.

### 2014

\*+1 Day [1] International Cyanide Code (ICMI) Pre-audit (Gold Mine) – Ma’Aden Gold & Base Metals, Al Amar Gold Mine, Saudi Arabia, 11<sup>th</sup> January 2014.

## Audits & Training

## Eagle Environmental

\*+1 Day [1] International Cyanide Code (ICMI) Pre-audit (Gold Mine) – Ma’Aden Gold & Base Metals , Al Mahad Gold Mine, Saudi Arabia, 13<sup>th</sup> January 2014.

\*+1 Day [1] International Cyanide Code (ICMI) Pre-audit (Gold Mine) – Ma’Aden Gold & Base Metals , Al Sukhaybarat Gold Mine, Saudi Arabia, 15<sup>th</sup> January 2014.

\*+1 Day [1] International Cyanide Code (ICMI) Pre-audit (Gold Mine) – Ma’Aden Gold & Base Metals , Al Bulgah Gold Mine, Saudi Arabia, 16<sup>th</sup> January 2014.

\*#+2 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) follow-up – African Barrick Gold, Buzwagi Gold Mine, Tanzania, 5<sup>th</sup> – 6<sup>th</sup> February 2014.

\*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Goldfields, Tarkwa Mine, Ghana, 1<sup>st</sup> – 5<sup>th</sup> March 2014.

\*+2 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Goldfields, Damang Mine, Ghana, 6<sup>th</sup> – 8<sup>th</sup> March 2014.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), AngloGold Ashanti, Iduapriem Mine, Ghana, 8<sup>th</sup> – 13<sup>th</sup> March 2014.

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Newmont Ahafo Gold Mine, Ghana, 12<sup>th</sup> – 16<sup>th</sup> May 2014.

\*#+3 Day [2] International Cyanide Code (ICMI) Production Audit, No 2 Repackaging Plant and Incinerator, Vehrad Transport & Haulage Co Ltd, Accra, Ghana, 21<sup>st</sup> – 23<sup>rd</sup> May 2014.

\*#+3 Day [2] International Cyanide Code (ICMI) Certification Audit (Transportation Consignor) – Ma’Aden Gold & Base Metals, Jeddah, Saudi Arabia, 16<sup>th</sup> – 19<sup>th</sup> June 2014.

\*4 Day ECA [2] 1<sup>st</sup> Quarter Stream Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 1<sup>st</sup> – 4<sup>th</sup> July 2014.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), AngloGold Ashanti, Yatela Mine, Mali, 14<sup>th</sup> – 16<sup>th</sup> July 2014.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), AngloGold Ashanti, Sadiola Mine, Mali, 17<sup>th</sup> – 20<sup>th</sup> July 2014.

\*2 Day ECA [1] 2<sup>nd</sup> Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 9<sup>th</sup> – 10<sup>th</sup> September 2014.

\*2 Day ECA [1] Disposing of Waste Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 28<sup>th</sup> – 29<sup>th</sup> October 2014.

\*2 Day ECA [1] Impending the Flow of Water in a Watercourse (Ash dump) Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 30<sup>th</sup> – 31<sup>st</sup> October 2014.

\*+3 Day [2] International Cyanide Code (ICMI) Gap audit (Gold Mine), AngloGold Ashanti, Geita Mine, Tanzania, 10<sup>th</sup> – 13<sup>th</sup> November 2014.

2 Day ECA [1] Impending the Flow of Water in a Watercourse Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 9<sup>th</sup> – 10<sup>th</sup> December 2014.

\*2 Day ECA [1] 3<sup>rd</sup> Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 11<sup>th</sup> – 12<sup>th</sup> December 2014.

**2015**

\*2 Day ECA [1] 4<sup>th</sup> Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 2<sup>nd</sup> -3<sup>rd</sup> March 2015.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – AngloGold Ashanti, Siguiri Gold Mine, Guinea, 10<sup>th</sup> – 12<sup>th</sup> March 2015.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Joel Gold Mine, South Africa, 21-23 April 2015.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Production) – Sasol No 1 and No 2 Cyanide Plants, Sasolburg, South Africa, 18<sup>th</sup> – 20<sup>th</sup> May 2015.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony No 1 Plant, Welkom, South Africa, 25<sup>th</sup> – 27<sup>th</sup> May 2015.

\*2 Day ECA [1] 1<sup>st</sup> Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 9<sup>th</sup> – 10<sup>th</sup> June 2015.

\*+4 Day [2] International Cyanide Code (ICMI) Gap audit, (Gold Mine) – Maaden Gold and Base Metals Ad Duwahyi and As Suq Gold Mines, Saudi Arabia, 12<sup>th</sup> to 17<sup>th</sup> June 2015

\*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Acacia Bulyanhulu Gold Mine, Tanzania, 29<sup>th</sup> June – 3<sup>rd</sup> July 2015.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Acacia North Mara Gold Mine, Tanzania, 24<sup>th</sup> – 27<sup>th</sup> August 2015.

\*2 Day ECA [1] 2<sup>nd</sup> Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 8<sup>th</sup> - 9<sup>th</sup> September 2015.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Target Plant, Welkom, South Africa, 5<sup>th</sup> – 7<sup>th</sup> October 2015.

\*+2 Day [1] International Cyanide Code (ICMI) Gap audit (Gold Mine) – Harmony Target Backfill Plant, Welkom, South Africa, 8<sup>th</sup> – 9<sup>th</sup> October 2015.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Kusasalethu Gold Plant, Carletonville, South Africa, 13<sup>th</sup> – 15<sup>th</sup> October 2015.

\*2 Day ECA [1] Disposing of Waste Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 20<sup>th</sup> – 21<sup>st</sup> October 2015.

\*2 Day ECA [1] Impeding the flow of water in a water course Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 22<sup>nd</sup> – 23<sup>rd</sup> October 2015.

\*+3 Day [2] International Cyanide Code (ICMI) Recertification audit (Production) – Sasol No 1 and No 2 Cyanide Plants, Sasolburg, South Africa, 16<sup>th</sup> – 18<sup>th</sup> November 2015.

\*#+5 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – AngloGold Ashanti Iduapriem Gold Mine, Ghana, 30<sup>th</sup> November – 4<sup>th</sup> December 2015.

\*#+3 Day [1] International Cyanide Code (ICMI) C Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – AngloGold Ashanti Obuasi Gold Mine, Ghana, 7<sup>th</sup> – 9<sup>th</sup> December 2015.

\*2 Day ECA [1] Impeding the flow of water in a water course (Armcor, Ash Dirty Dam and a Station Dirty Dam interconnector pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 14<sup>th</sup> -15<sup>th</sup> December 2015.

\*2 Day ECA [1] 3<sup>rd</sup> Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 17<sup>th</sup> - 18<sup>th</sup> December 2015.

## 2016

\*+5 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – AngloGold Ashanti Geita Gold Mine, Tanzania, 24<sup>th</sup> – 30<sup>th</sup> January 2016.

\*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Acacia North Mara Gold Mine, Tanzania, 1<sup>st</sup> – 5<sup>th</sup> February 2016.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Doornkop Plant, Krugersdorp, South Africa, 17<sup>th</sup> – 19<sup>th</sup> February 2016.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Central Plant, Welkom, South Africa, 22<sup>nd</sup> – 24<sup>th</sup> February 2016.

\*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Repackaging Plant-Production and Transportation) – Vehrad Transport & Haulage, Accra, Ghana, 25<sup>th</sup> – 28<sup>th</sup> July 2016.

\*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony Joel Gold Mine, South Africa, 3<sup>rd</sup> – 7<sup>th</sup> October 2016.

\*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Newmont Akyem, Ghana, 21<sup>st</sup> – 24<sup>th</sup> November 2016.

## 2017

\*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Acacia Buzwagi Gold Mine, Tanzania, 30<sup>th</sup> January – 2<sup>nd</sup> February 2017.

\*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Ma’Aden Gold & Base Metals Al Amar Gold Mine, Saudi Arabia, 25<sup>th</sup> -27<sup>th</sup> April 2017.

\*+3 Day [1] International Cyanide Code (ICMI) Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals Ad Duwayhi Gold Mine, Saudi Arabia, 29<sup>th</sup> April – 1<sup>st</sup> May 2017.

\*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals As Suq Gold Mine, Saudi Arabia, 2<sup>nd</sup> – 5<sup>th</sup> May 2017.

\*+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals Mahad Gold Mine, Saudi Arabia, 6<sup>th</sup> – 7<sup>th</sup> May 2017.

\*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals Sukhaybarat Gold Mine, Saudi Arabia, 9<sup>th</sup> – 11<sup>th</sup> May 2017.

\*+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals Bulgah Gold Mine, Saudi Arabia, 13<sup>th</sup> – 14<sup>th</sup> May 2017.

\*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Nologwa Gold Plant, South Africa, 6<sup>th</sup> – 9<sup>th</sup> June 2017.

\*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti West Gold Plant, South Africa, 12<sup>th</sup> – 15<sup>th</sup> June 2017.

\*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Kopanang Gold Plant, South Africa, 16<sup>th</sup> and 19<sup>th</sup>– 21<sup>st</sup> June 2017.

\*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Mponeng Gold Plant, South Africa, 26<sup>th</sup> – 29<sup>th</sup> June 2017.



\*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Savuka Gold Plant, South Africa, 29<sup>th</sup> June and 3<sup>rd</sup> – 5<sup>th</sup> July 2017.

\*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Acacia Buzwagi Gold Mine, Tanzania, 17<sup>th</sup> – 21<sup>st</sup> July 2017.

\*#+4 Day [2] International Cyanide Code (ICMI) Transport Recertification Audit, Vehrad Transport & Haulage Co Ltd, Accra, Ghana, 14<sup>th</sup> – 17<sup>th</sup> August 2017.

\*#+4 Day [2] International Cyanide Code (ICMI) Production Recertification Audit, No 1 and No 2 Repackaging Plant and Incinerator Complex – Vehrad Transport & Haulage Co Ltd, Accra, Ghana, 18<sup>th</sup> - 21<sup>st</sup> August 2017.

\*#+3 Day [2] International Cyanide Code (ICMI) Transport/Consignor Recertification Audit – Ma’aden Gold and Base Metals, Jeddah, Saudi Arabia, 4<sup>th</sup> – 7<sup>th</sup> December 2017.

\*#+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Newmont Akyen Gold Plant, Ghana, 29<sup>th</sup> January – 2<sup>nd</sup> February 2018.

\*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Geita Gold Mine, Geita, Tanzania, 20<sup>th</sup> - 22<sup>nd</sup> March 2018.

**Formalised Career audits – 353 (since November 1991)**

**No of audit days on site – 1180 days**

**Total days involved in audits – 1750 days**

**Informal audits (for SMEs) based on walkabouts, desk studies, etc - approximately 70 (basically one day walkabout audits with managers) thus an additional 70 days, equivalent.**

## **B) LECTURES PRESENTED**

**Hoogervorst A J (1991) "Environmental Auditing: The Missing Link in Business Management"** presented at the AUDIT Environmental Briefing for Business & Industry Conference, Midrand, Johannesburg, 11 November 1991.

**Hoogervorst A J (1993) "Successful Post Audit Procedures: gaining Company-wide Commitment to the Environmental Enhancement of your Organisation"** presented at a Conference on Corporate Environmental Liability & Auditing, 19-21 July 1993, Sandton, Johannesburg.

**Hoogervorst A J (1995) "Environmental Auditing: A Tool for Improvement, Evaluation, and Environmental Training and Awareness"** presented at the South African Institute of Civil Engineers’ Congress "Engineering our Environment", 11-13 April 1995, Port Elizabeth.

**Hoogervorst A J (1995) “Environmental Auditing-the Multi-functional Tool for Proactive Managers”**, presented at Noshcon/Noshtex ‘95 (National Occupation Safety Association Annual Congress), 17 May 1995, Kempton Park.

**Hoogervorst A (1997) “Workshop on Conducting Environmental Audits and Reporting the Result** presented at a Conference on “Conducting and Managing Environmental Audits”, 23-24 October 1997, at the Indaba Hotel, Fourways.

**Hoogervorst A (1998) “Utilising Environmental Audit Results as a Multi-functional Aid to Management and for the Identification of Compliance Strengths and Weaknesses”**, presented at the 4<sup>th</sup> Annual “Environmental Management Solutions Africa ‘98” Conference, 22-23 April 1998, at the Indaba Hotel, Fourways.

**Hoogervorst A (2003) “Opportunities and Threats for Responsible Care”**, presented at the 3<sup>rd</sup> Joint CEFIC and FECC Responsible Care Conference, Dedeman Hotel, Istanbul, Turkey.

**Hoogervorst A (2004) “Practical guidelines on corporate sector implementation of sustainable development (triple bottom line) principles”**, presented at “IQPC Enviro-legal Compliance for Sustainable Business Conference 2004”, 23-25 February 2004, Park Hyatt Hotel, Rosebank, Johannesburg.

**Hoogervorst A (2004) Workshop – “Practical Guidelines for Effective Environmental & Sustainability Reporting in Your Organisation”**, presented at “IQPC Enviro-legal Compliance for Sustainable Business Conference 2004”, 23-25 February 2004, Park Hyatt Hotel, Rosebank, Johannesburg.

**Hoogervorst A (2004) “Best Environmental Practice – The Realities for Successful Application”**, presented at MarcusEvan Conference, “Best Environmental practices”, 28-30 July 2004, Vineyard Hotel, Cape Town.

**Hoogervorst A (2004) One Day Workshop – “Practical Toolkit for Achieving Economic, Social and Environmental “Triple Bottom Line” Profits and applying Best Environmental Practice”**, presented at MarcusEvan Conference, “Best Environmental Practices”, 30 July 2004, Vineyard Hotel, Cape Town.

**Hoogervorst A (2009) Keynote Address – “Environmental and sustainability aspects of gold mining with particular reference to the integrating influences of cyanide code compliance”**, presented at the World Gold Conference, 2009, 26<sup>th</sup> – 30 October 2009, Misty Hills, Cradle of Humankind, Gauteng, South Africa.

**Hoogervorst A (2009) Gold Processing Workshop, 26<sup>th</sup> October 2009, Presentation, “International Cyanide Management Institute (ICMI) Cyanide Code: An auditor perspective”**, at World Gold Conference, 2009, 26<sup>th</sup> – 30 October 2009, Misty Hills, Cradle of Humankind, Gauteng, South Africa.

**Hoogervorst A (2010) “Bridging the Gap between BC (Before Code) and AD (After Decision) Code Compliance – Dilemmas and Developments observed in Audits”**, presented at 2010 International Cyanide Code Conference, 13<sup>th</sup> July 2010, Wyndham Jacksonville Riverwalk Hotel, Jacksonville, Florida, USA.

**Hoogervorst A (2012) 4 Day International Summer School on “Life Cycle Approaches to Sustainable Regional Development”**, 28<sup>th</sup> – 31<sup>st</sup> August 2012, Salento University, Lecce, Italy. Presented paper on "Sustainability: Pipe Dream or Practicality?" and facilitated interactive workshop (including role plays) on “Understanding when and why to use sustainability: case studies”.

**Hoogervorst A (2014) “Cyanide Code Auditing – Perspectives on Voluntary Industry Code Auditing”**, presented at the 17<sup>th</sup> Annual Southern African Auditor Training Certification Authority (SAATCA) International Conference, CSIR International Conference Centre, Pretoria, 27-29<sup>th</sup> August 2014

## **C) OPEN (O) & IN-HOUSE (I-H) TRAINING COURSES PRESENTED**

**10 Day Environmental Auditing & Management Training Course**, Orapa Diamond Mine, Orapa, Botswana, 13-22 February 1996. 15 delegates (I-H)

**Two Day Environmental Auditing Training Course**, Umgeni Water, Durban, KwaZulu-Natal, 28th November and 2nd December 1997. 19 delegates (I-H)

**Half Day Environmental Auditing Training (informal)** for staff of the Southern African Enterprise Development Fund, Johannesburg, Gauteng, South Africa. 5th December 1997. 9 delegates (I-H)

**Two Day Environmental Auditing Training Course**, Umgeni Water, Durban, KwaZulu-Natal, 29th January and 3rd February 1998. 16 delegates (I-H)

**Half Day Crash Course in Environmental Auditing Techniques for Environmental Professionals (Techniques & Methodologies)**, Westville Hotel, Westville, KwaZulu-Natal, 30<sup>th</sup> January 1998. 15 delegates (O)

**One Day Crash Course on Environmental Auditing**, Woodstock Holiday Inn, Cape Town, 14<sup>th</sup> May 1998. 25 delegates (O)

**One Day Crash Course on Environmental Auditing**, Woodstock Holiday Inn, Cape Town, 30<sup>th</sup> July 1998. 13 delegates (O)

**One Day Crash Course on Environmental Auditing**, Rob Roy Hotel, Botha's Hill, KwaZulu-Natal, 1<sup>st</sup> October 1998. 12 delegates (O)

**Half Day Crash Course in Environmental Auditing Techniques for Environmental Professionals (Techniques & Methodologies)**, Rob Roy Hotel, Botha's Hill, KwaZulu-Natal, 20<sup>th</sup> November 1998. 13 delegates (O)

**One Day Crash Course on Environmental Auditing**, Woodstock Holiday Inn, Cape Town, 26<sup>th</sup> November 1998. 12 Delegates (O)

**Polifin In-house, One Day Crash Course on Environmental Auditing**, Polifin Training Centre, Polifin factory, Umbogintwini, 10<sup>th</sup> December 1998. 19 delegates (I-H)

**One Day Crash Course on Environmental Auditing**, Rob Roy Hotel, Botha's Hill, KwaZulu-Natal, 17<sup>th</sup> March 1999. 14 delegates (O)

**One Day Crash Course on Environmental Auditing (Methods & Techniques)**, Continuing Engineering Education, University of the Witwatersrand, 20<sup>th</sup> April 1999. 19 delegates (O)

**One Day Crash Course on Environmental Auditing**, Rob Roy Hotel, Botha's Hill, KwaZulu-Natal, 25<sup>th</sup> August 1999. 13 delegates (O)

**3 Day Environmental Auditing Course, (University accredited)** Masters' degree students, Centre for Environment & Development, University of Natal (Pietermaritzburg). 20-22nd September 1999. 21 students. (I-H)

**One Day Crash Course on Environmental Auditing (Methods & Techniques)**, Continuing Engineering Education, University of the Witwatersrand, 20<sup>th</sup> October 1999. 29 delegates (O)

**Three Day Environmental Auditing Training Course (Methods & Techniques)**, for Verde-Azul & Afridev Holdings, in Maputo, Mozambique from 13-16 November 1999. 6 delegates. (I-H)

**Two Hour Introductory Course on Environmental Auditing** to the Environmental Quality and EIA Divisions of MICOA (Mozambican Ministry for Environmental Coordination) 2 December 1999, Maputo, Mozambique. (I-H) 12 officials

**5 Day Environmental Auditing Methods & Techniques Course for Master Degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), June 2000, 15 delegates (O and I-H)

**5 Day Environmental Auditing Methods & Techniques Course for Master Degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), June 2001, 19 delegates (O and I-H)

**2 Day Environmental Auditing Training Course (including a "Virtual" audit exercise and role play)**, Centre for Continuing Engineering Education, University of the Witwatersrand, Johannesburg, 13-14 February 2002, 20 delegates (O)

**5 Day Environmental Auditing Methods & Techniques Course for Master Degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), June 2002, 21 delegates (O and I-H)

**2 Day Environmental Auditing Training Course (including a "Virtual" audit exercise and role play)**, Rob Roy Hotel, Botha's Hill, Durban, 24-25 July 2002, 8 delegates (O)

**5 Day Environmental Auditing Methods & Techniques Course for Land Information Management students from Dept Land Affairs, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), November 2002, 27 delegates (O and I-H)

**2 Day Management Environmental Training Course (including audit & “Virtual Audit” Training)**, Toyota South Africa, Prospecton. 27-28 November 2002. (I-H) 17 delegates

**5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), March 2003, 21 delegates (O and I-H)

**5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), June 2002, 15 delegates (O and I-H)

**5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), March 2003, 21 delegates (O and I-H)

**2 Day Environmental Auditing Training Course (including a “Virtual” audit exercise and role play)**, Victoria Junction Protea Hotel, Cape Town, 7-8 May 2003, 9 delegates (O)

**2 Day Environmental Auditing Training Course (including a “Virtual” audit exercise and role play)**, Rob Roy Hotel, Botha’s Hill, Durban, 5-5 August 2003, 14 delegates (O)

**5 Day Environmental Auditing Methods & Techniques Course for Land Information Management students from Dept Land Affairs, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), November 2003, 7 delegates (O and I-H)

**5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), March 2004, 21 delegates (O and I-H)

**2 Day Environmental Auditing Training Course (including a “Virtual” audit exercise and role play)**, Rob Roy Hotel, Botha’s Hill, Durban, 27-28 October 2004, 8 delegates (O)

**5 Day Environmental Auditing Methods & Techniques Course for Land Information Management students from Dept Land Affairs, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), November 2004, 20 delegates (O and I-H)

**5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), 20-24 June 2005, 21 delegates (O and I-H)

**5 Day Environmental Auditing Methods & Techniques Course for Land Information Management students from Dept Land Affairs, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), 31 October – 4 November 2005, 11 delegates (O and I-H)

**5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), 22-26 May 2006, 16 delegates (O and I-H)

**5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited)** Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), 2 1-25 May 2007, 7 delegates (I-H)

**Hoogervorst A (2008) – “Auditing to Police or Auditing to Improve? - Perspectives on Human Behaviour, Change Management, and Continuous Improvement”,** presented to CEAD Masters students, University of Kwazulu-Natal, Pietermaritzburg, 14<sup>th</sup> April 2008, 5 delegates (I-H)

**5 Day Environmental Auditing Techniques & Methodologies (with reference to the Cyanide Code) Course**, The Golden Tulip Hotel, Accra, Ghana, 16<sup>th</sup> -20<sup>th</sup> November 2009, 17 delegates (O)

**5 Day Environmental Auditing Techniques & Methodologies (with reference to the Cyanide Code) Course**, Goldfields Academy, “Bull Ring”, Goldfields Kloof Mine, South Africa, 1<sup>st</sup> – 5<sup>th</sup> February 2010, 19 delegates (I-H)

**5 Day Environmental Auditing Techniques & Methodologies (with reference to the Cyanide Code) Course**, Goldfields-Abosso Damang Mine, Ghana, 19<sup>th</sup> – 23<sup>rd</sup> April 2010, 12 delegates (I-H)

**Cyanide Code Training Course**, 3 x 3 hour sessions, Newmont Ahafo Gold Mine, Ghana, 19<sup>th</sup> – 23<sup>rd</sup> April 2010, with D Viljoen. 36 delegates (I-H)

**4 Day Cyanide Code Training Course**, Gold Fields, Tarkwa Mine, Ghana, 22<sup>nd</sup> – 26<sup>th</sup> October 2012. With D Viljoen. 27 delegates (I-H)

**4 Day Cyanide Code Training Course**, AngloGold Ashanti Continental Africa, Dakar, Senegal, 29<sup>th</sup> July – 1<sup>st</sup> August 2013. With D Viljoen. 21 delegates (I-H)

**1 Day Cyanide Awareness Training Course**, Alistair Logistics, Dar es Salaam, Tanzania. 4<sup>th</sup> December 2013, 39 delegates (IH)

**1 Day Course – “Practical Environmental Compliance: An Interactive Workshop for Commerce & Industry”**, jointly with Vicki King of Metamorphosis Environmental, The Swan Room, Westville Country Club, Westville, KZN, 17<sup>th</sup> March 2015. 12 delegates (O)

**2 Day Cyanide Code Training Course**, Vehrad Transport & Haulage Training Centre, Accra, Ghana, 29<sup>th</sup> – 30<sup>th</sup> July 2016. 23 delegates.

**3 Day Cyanide Code Training Course & Transport Recertification Support**, Alistair James Company (Transporters), Dar es Salaam, Tanzania, 16<sup>th</sup> – 18<sup>th</sup> January 2017. (approx.. 10 delegates)

**Total hours of training presented since February 1996 - 1136 hours.**

Number trained – 849

## **D) UNIVERSITY TRAINING PRESENTED**

**External Lecturer - Environmental Auditing Module**, (1996,1997,1998,1999, 2000, 2003) for the University of Natal (Durban campus) B.Sc. Environmental Sciences course, second year students. (1st undergraduate Environmental Auditing course presented at a University in South Africa)

**External Lecturer – Environmental Auditing**, 5 day module (accredited) for Masters Degree course in Environment and Development, Centre for Environment & Development, University of Natal (Pietermaritzburg) (1999, 2000, 2001, 2002, 2003,2004, 2005,2006, 2007)

## **E) MISCELLANEOUS**

**Verification Auditor and Evaluator** (1998/9) EMS Auditor Certification Scheme for South Africa by the Southern African Auditor and Training Certification Association (SAATCA)

**Witness Auditor** (2005), Checking Systems Auditors for competency to undertake Third Party Verification Audits of Responsible Care. Undertaken for the Chemical and Allied Industries Association (CAIA), South African national custodians of Responsible Care

**Certified Principal Auditor (Environmental Management Systems)** (2006) Certified with RABQSA International (now Exemplar Global), P O Box 347, Penrith BC NSW 2751 Australia. Certificate No 12529, valid from May 2006 to May 2019

**Approved Lead Auditor** (2006) for certification Audits under the **International Cyanide Management Code** (Code) authorized to audit gold mines, cyanide producers and cyanide transporters for compliance with the Code by the International Cyanide Management Institute (ICMI). [www.cyanidecode.org/pdf/AuditorList.pdf](http://www.cyanidecode.org/pdf/AuditorList.pdf)

**Approved Production Auditor** (2012) for certification Audits under the **International Cyanide Management Code** (Code) authorized to audit cyanide producers for compliance with the Code by the International Cyanide Management Institute (ICMI). [www.cyanidecode.org/pdf/AuditorList.pdf](http://www.cyanidecode.org/pdf/AuditorList.pdf)