



## **LIST OF PUBLICATIONS**

### **DIRECTORIES**

#### ***World Directory of Nickel Production Facilities 2017***

This comprehensive directory lists nickel mines, smelters and refineries as well as new nickel industry developments (committed, likely and potential) together with recent closures in more than twenty countries. *Published October 2017*

### **STATISTICS AND MARKET ANALYSIS**

#### ***World Nickel Statistics (Monthly Bulletin) and Statistics Yearbook (November each year)***

The Bulletin comprises 12 monthly issues with the latest available data covering about 25 months plus annual data for the most recent two to eleven years. A Yearbook is published once a year usually in November and contains annual data for the latest 11-year period. *Bulletin published monthly, the Yearbook annually.*

#### ***The Use of Nickel in Batteries 2018***

This report was commissioned by INSG to obtain improved information on the use of nickel in battery applications including energy storage. It is part of on-going efforts by INSG to understand the dynamics driving change in the nickel market. 58 pages. *Published May 2018.*

#### ***World Nickel-based Alloys 2016***

This report was commissioned by INSG to provide a comprehensive overview of the World Nickel-based Alloys market. Work on the report was carried out for the Study Group by Heinz H. Pariser, Alloy Metals & Steel Market Research. 427 pages. *Published September 2016.*

#### ***Nickel Production in South East Asia: Trends and Perspectives 2016***

This report was commissioned by INSG to provide a comprehensive overview of primary nickel production in South East Asia and was carried out by Beijing Antaike Information Development Co. Nickel reserves and mine production, with company details, are provided for nickel production in Indonesia, Philippines, Myanmar, Vietnam, Papua New Guinea and Solomon Islands. 55 pages. *Published April 2016.*

#### ***Nickel in Batteries 2015***

A report on the use of nickel in batteries, drawing on data from both government and private sources. Describes various types of nickel-containing batteries, including those in hybrid and electric vehicles. Information on the various nickel-containing batteries in terms of cost and energy density is provided, as is information on the environmental regulations impacting nickel batteries. 29 Pages. *Published July 2015.*

#### ***Primary Nickel Usage: New Frontiers in China 2015***

This publication was commissioned by INSG to provide a comprehensive overview of primary nickel usage in China. Work on the report was carried out by Beijing Antaike Information Development Co., Ltd.. 48 pages. *Published March 2015.*

#### ***China's Nickel Mine and Refined Nickel Production 2014***

This publication was commissioned by INSG to provide a comprehensive overview of China's nickel mine and refined nickel production. Work on the report was carried out by BGRIMM – Beijing General Research Institute of Mining & Metallurgy on behalf of INSG. 20 pages. *Published October 2014.*

#### ***Nickel – A Surface Technology Material 2014***

This report, done by Heinz Pariser on behalf of INSG, gives an overview of the use of nickel in the plating and surface treatment industry. Various processes used in nickel plating are covered in detail, including electroplating, vapor deposition and zinc-nickel plating. Data is furnished on various regions and on the major uses of plating. Contact information provided for major companies in the various stages of nickel plating. Information on regulations covering Environment, Health and Safety are provided. 82 pages. *Published July 2014.*

### **Nickel Ore Market of Southeast Asia 2013**

Laterite ore provided to the nickel pig iron industry is one of the fastest growing sources of nickel units globally. This report lists existing and planned mines and smelters in Indonesia, the Philippines, Myanmar, Papua New Guinea and the Solomon Islands, giving information on capacity, ore grades, export destinations, smelter process and more. 56 pages. *Published August 2013.*

### **INSG Market for Nickel: Fundamentals Driving Change 2012**

Comprehensive analysis of the drivers for change in the world nickel market. Analyses the structure of mine and refined world nickel production and identifies trends. Assesses nickel usage patterns in the main market sectors. Includes information on industry ownership. *Published November 2012.*

### **INSG China Nickel Pig Iron Market Study 2012**

This study, carried out by Shanghai Metals Market for INSG, looks at the rapidly changing nickel pig iron market in China. NPI has become the major nickel source in China and is a growing share of global production. The report looks at evolving trends in production and ore supply as well as furnishing information on major NPI producers and stainless steel producers. *Published May 2012.*

### **Nickel Heap Leaching Study 2010**

A comprehensive analysis of heap leaching in nickel production prepared for INSG by consultants, this report provides up to date information on all aspects of heap leaching. It examines the various hydrometallurgical processes applied to nickel leaching. It also covers the economic and environmental impact of the use of heap leaching, including on CO2 emissions. 72 pages. *Published April 2010.*

## **JOINT REPORTS**

### **Social Acceptance of Mining 2016**

This report has been prepared by the University of Queensland-based Centre for Social Responsibility in Mining on behalf the Metals Study Groups – the International Lead and Zinc Study Group, International Copper Study Group and International Nickel Study Group. The report is intended for all stakeholders with an interest in social acceptance and social responsibility in the mining and metals sector. 62 pages. *Published December 2016.*

### **The By-Products of Lead, Zinc, Copper and Nickel - 2015**

A joint report of the three Study Groups on the production, usage, trade and outlook for 17 by-products metals. Information on common sources of by-product metals, refinery processes, recycling, markets, contracts, historic process and pricing mechanisms, uses, government regulations, REACH status of compounds, government stockpiles and trade restrictions is provided. Historic market balances for many of the metals are provided. A Directory of mining and producing companies with capacities is also included. Metals covered are arsenic, bismuth, cadmium, cobalt, gallium, germanium, gold, indium, mercury, molybdenum, platinum group metals, scandium, silver, rhenium, selenium, tellurium and rare earths. 338 pages. *Published December 2015.*

### **Cobalt as a By-Product of Copper and Nickel**

A joint report of the International Nickel Study Group and the International Copper Study Group which provides improved information on cobalt, and the relationship between nickel, copper and cobalt production, refining and use. This 85-page report furnishes data on production and usage through 2012 as well as an outlook for cobalt mine capacity and production for the period 2012 to 2018. Information on end-of-life recycling rates for cobalt-bearing products is also included. *Published March 2014.*

**Report on Taxation and Fiscal Incentives of Copper, Zinc, Lead And Nickel** A joint report of the ILZSG, INSG and ICSG providing an in-depth analysis of taxation and fiscal incentives applied to non-ferrous metals in the major mining and metals producing countries. The research was carried out by Raw Materials Group (RMG) of Sweden on behalf of the Study Groups and is intended to be a valuable reference document for governments and companies. 50 pages. *Published January 2014.*

## **ENVIRONMENT AND GOVERNMENT**

### **INSG Environment, Health and Safety (EHS) Regulations Relating to Nickel 2015**

An annual compilation of environmental, health and safety regulations affecting nickel. The listing of regulations is provided by country, state or province as well as separately for international organizations. The report is presented in a spreadsheet format with web links to regulations in various jurisdictions. 42 pages. *Published April 2015.*

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