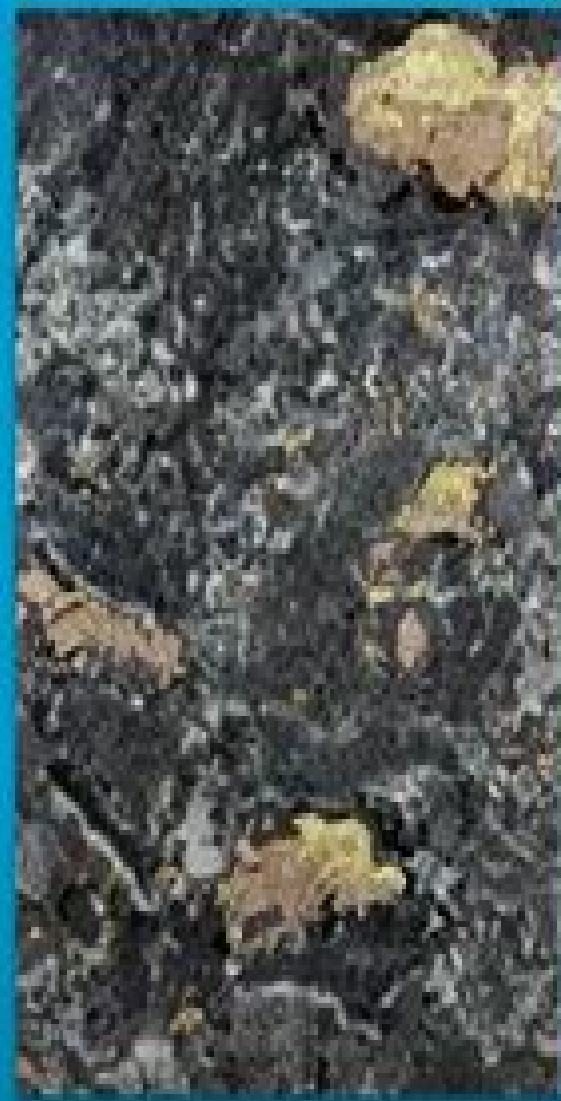
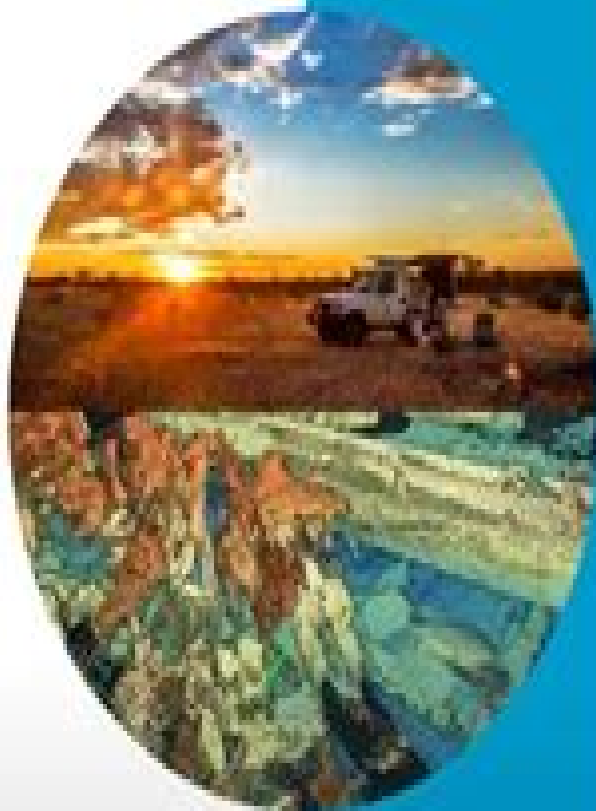




Dynamics of magmatic Ni-Cu-PGE sulfide deposits in sill-dyke networks

Steve Barnes



CSIRO Mineral Resources

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Magmatic Sulfide Deposits

Anthony J. Naldrett



Magmatic Sulfide Deposits:

Magmatic Sulfide Deposits Anthony J. Naldrett, 2013-03-14 This book is written by a leading authority on the subject of magmatic sulfide deposits An overview of deposit types accompanied by a summary of the resources of nickel copper and platinum group elements in the world's principal known deposits is followed by a summary of the relevant physical chemistry The core of the book comprises a discussion about the geology and geochemistry of each of the deposit types in turn accompanied by the implications of this data to the origin of the deposits in the light of our understanding of the chemical processes involved A final chapter focuses on the use of the genetic concepts in exploration **Magmatic Sulfide Deposits**

Anthony Naldrett, 2013-01-22 **Magmatic sulfide deposits**, 2004 *Platinum Group Element and Magmatic Sulfide Deposits* Anthony J. Naldrett, 2001 Notes for Short Course on "magmatic Sulfide Deposits--theory, Reality and

Exploration" A. J. Naldrett, Alaska Miners Association. Convention, 1995 **Mineral Deposit Research: Meeting the Global Challenge** Jingwen Mao, Frank P. Bierlein, 2008-01-08 In June 1965 a small group of European economic geologists gathered in Heidelberg Germany at the invitation of Professor G C Amstutz and decided to establish the Society for Geology Applied to Mineral Deposits SGA and to start a journal to be called Mineralium Deposita The first issue of the journal came out in May 1966 and has now matured to a leading journal in economic geology The first Biennial SGA Meeting was held successfully in Nancy France in 1991 with subsequent meetings in Grenada Spain 1993 Prague Czech Republic 1995 Turku Finland 1997 London United Kingdom 1999 Krakow Poland 2001 and Athens Greece 2003 In 2002 the SGA Council decided that its 8 Biennial Meeting in 2005 should be held in Beijing China making this the first Biennial Meeting to be convened outside the rope Significantly 2005 also marks the 40 anniversary of the SGA The decision to host this year's premier meeting in Beijing reflects the Society's successful transition from its traditional European focus to a truly global organization with 24% of SGA members situated in North America 13% in Australia and Oceania and 5% in Asia Over the last 27 years China has made dramatic progress towards political and economic reform and opening the nation to the outside world China's rapid economic development demands increasing amounts of minerals fuels and materials and this is currently a major driver for the global economic markets **The Crust** R.L. Rudnick, Heinrich D. Holland, Roberta L.

Rudnick, 2005-12-19 The Treatise on Geochemistry is the first work providing a comprehensive integrated summary of the present state of geochemistry It deals with all the major subjects in the field ranging from the chemistry of the solar system to environmental geochemistry The Treatise on Geochemistry has drawn on the expertise of outstanding scientists throughout the world creating the reference work in geochemistry for the next decade Each volume consists of fifteen to twenty five chapters written by recognized authorities in their fields and chosen by the Volume Editors in consultation with the Executive Editors Particular emphasis has been placed on integrating the subject matter of the individual chapters and volumes Elsevier also offers the Treatise on Geochemistry in electronic format via the online platform ScienceDirect the most

comprehensive database of academic research on the Internet today enhanced by a suite of sophisticated linking searching and retrieval tools Nickel Sulfide Ores and Impact Melts Peter C. Lightfoot, 2016-08-23 *Nickel Sulfide Ores and Impact Melts* Origin of the Sudbury Igneous Complex presents a current state of understanding on the geology and ore deposits of the Sudbury Igneous Complex in Ontario Canada As the first complete reference on the subject this book explores the linkage between the processes of meteorite impact melt sheet formation differentiation sulfide immiscibility and metal collection and the localization of ores by magmatic and post magmatic processes The discovery of new ore deposits requires industry and government scientists and academic scholars to have access to the latest understanding of ore formation process models that link to the mineralization of their host rocks The ore deposits at Sudbury are one of the world's largest ore systems representing a classic case study that brings together very diverse datasets and ways of thinking This book is designed to emphasize concepts that can be applied across a broad range of ore deposit types beyond Sudbury and nickel deposit geology It is an essential resource for exploration geologists university researchers and government scientists and can be used in rock and mineral analysis remote sensing and geophysical applications Provides the only reference book to focus entirely on the Sudbury Igneous Complex Brings together an understanding of ore deposit and impact melts as a basis for future exploration Authored by a leading expert on the geology of the Sudbury Igneous Complex with 35 years of experience working on nickel sulfide ore deposits Ore Deposit Geology John Ridley, 2013-07-04 This book systematically describes and illustrates major ore deposit types and links deposits to geological settings and the processes behind their formation

Sulfide Mineralogy and Geochemistry David J. Vaughan, 2018-12-17 Volume 61 of *Reviews in Mineralogy and Geochemistry* presents an up to date review of sulfide mineralogy and geochemistry The crystal structures electrical and magnetic properties spectroscopic studies chemical bonding thermochemistry phase relations solution chemistry surface structure and chemistry hydrothermal precipitation processes sulfur isotope geochemistry and geobiology of metal sulfides are reviewed Where it is appropriate for comparison there is brief discussion of the selenide or telluride analogs of the metal sulfides When discussing crystal structures and structural relationships the sulfosalt minerals as well as the sulfides are considered in some detail *Sulfur in Magmas and Melts*: Harald Behrens, James D. Webster, 2018-12-17 Volume 73 of *Reviews in Mineralogy and Geochemistry* represents a compilation of the material presented by the invited speakers at a short course on August 21-23 2011 called *Sulfur in Magmas and Melts and its Importance for Natural and Technical Processes* held at the Hotel der Achtermann in Goslar Germany following the 2011 Goldschmidt Conference in Prague Czech Republic It covers Studies of sulfur in melts motivations and overview Analytical methods for sulfur determination in glasses rocks minerals and fluid inclusions Spectroscopic studies on sulfur speciation in synthetic and natural glasses Diffusion and redox reactions of sulfur in silicate melts The role of sulfur compounds in coloring and melting kinetics of industrial glass Experimental studies on sulfur solubility in silicate melts at near atmospheric pressure and Modeling the solubility of sulfur

in magmas a 50 year old geochemical challenge **Processes and Ore Deposits of Ultramafic-Mafic Magmas through Space and Time** Sisir K. Mondal, William L. Griffin, 2017-09-08 Processes and Ore Deposits of Ultramafic Mafic Magmas through Space and Time focuses on the fundamental processes that control the formation of ore deposits from ultramafic mafic magmas covering chromite platinum group element PGE Ni sulfides and Ti V bearing magnetite The exploration exploitation and use of these magmatic ores are important aspects of geology and directly linked to the global economy Magmatic ores form from ultramafic mafic magmas and crystallize at high temperature after emplacement into crustal magma chambers and are genetically linked to the evolution of the parental magmas through space and time This book features recent developments in the field of magmatic ore deposits and is an essential resource for both industry professionals and those in academia Elucidates the relationships between tectonic settings and magmatic ore mineralization Provides the links between magma generation in the mantle and ore mineralization at crustal levels Features the latest research on changing patterns in magmatic ore mineralization through time and their bearing on the chemical evolution of the Earth s mantle **Platinum-Nickel-Chromium Deposits** Swapan Kumar Haldar, 2016-08-10 Platinum Nickel Chromium Deposits Geology Exploration and Reserve Base is the first reference book to combine information on the discovery of numerous minerals within existing deposits This book recognizes the close affinity and great natural coexistence of platinum palladium chromium nickel copper gold and silver hosted by unique stratigraphy mafic ultramafic intrusive of layered ingenious complex in a diverse structural set up The chapters are organized in a logical sequence of introductory physical and chemical properties demand supply scenario price trend substitution recycling and uses of these metals stratigraphy and host rocks geochemistry global distribution of existing deposits in six mega continents genetic system reserves resources overview common characteristic features aiding as exploration guides for new targets hazards and sustainable development This reference book is a must for students research scholars teachers and professional explorers in economic geology geography and allied subjects Presents over 150 full color illustrations including maps diagrams and charts Illustrates the key concepts in a clear and informative manner Authored by one of the world s leading geoscientists Provides unique coverage of high value mineral deposits through an approach accessible to industry professionals academic researchers and students alike **Large Igneous Provinces** Richard E. Ernst, 2014-09-25 This book explores all aspects of large igneous provinces as key processes in shaping our planet for researchers graduate students and mining industry professionals *The Ni-Cu-(PGE) Aguablanca Ore Deposit (SW Spain)* Rubén Piña, 2018-06-05 This book describes the Aguablanca Ni Cu PGE sulfide deposit the first and to date only mineralization of this type in southwestern SW Europe Since its discovery in 1993 this ore deposit has attracted the attention of the resource geology community due to its unusual geodynamic context namely an active plate margin The book focuses on the key features of the deposit and reports on the ore forming processes that were most important for its formation Mineral Deposits at the Beginning of the 21st Century A.

Piestrzynski, 2022-05-02 The Joint 6th Biennial SGA SEG Meeting was held in Krakow in August 2001 This volume contains 274 extended abstracts grouped thematically under 18 session titles covering topics such as lead zinc deposits metamorphism affecting mineral deposits and the environmental aspects of mining **U.S. Geological Survey Circular**, 1984 **Proceedings of the Second U.S. Geological Survey Workshop on the Early Mesozoic Basins of the Eastern United States**, 1985 *The United States Geological Survey in Alaska*, 1985 Short papers describing results of recent geologic investigations **Metals and Society** Nicholas Arndt, Clément Ganino, 2012-01-05 In the second edition Steve Kesler University of Michigan has been added as an author to rewrite some chapters The motivation for this revised edition is to more intensively address economic issues that surround the exploitation of mineral resources This emphasis gives the book a unique character With these sections *Metals and Society* deals with issues that pervade much of current science reporting the rate of exploitation of natural resources the question of when or if these resources will be exhausted the pollution and social disturbance that accompanies mining the compromises and challenges that arise from the explosion of demand from China India and other rapidly developing countries and the moral issues that surround mining of metals in lesser developed countries for consumption in the first world countries With its dual character the book will be useful as an introductory text for students in the earth sciences and a reference volume for students teachers and researchers of geography economics and the social sciences

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