

The 20th Santa Fe Symposium on Jewelry Manufacturing Technology

PALLADIUM FEATURES AS A JEWELLERY METAL FOR THE FIRST TIME

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The annual international Santa Fe Symposium® is the foremost source of the latest research and technical information on jewellery materials and manufacturing technology. Much of the industry's current state of knowledge on platinum jewellery alloys and manufacturing practice has been featured at this Symposium over the years (1–3). Breaking with tradition, the 2006 Symposium – the 20th Santa Fe Symposium – was held in Nashville, Tennessee, from 10th to 13th September 2006, rather than in Albuquerque, New Mexico, its spiritual home.

Introduction of Palladium

The 2006 Symposium was notable for featuring the new jewellery metal – palladium. This had been a very hot topic in the U.S., Chinese and European jewellery industries over the previous year, with many U.S. alloy suppliers launching new 950 palladium alloys on the market and the retail industry showing serious interest. However, a full technical appraisal has been awaited, and the three presentations on palladium ensured that a technical understanding of the metal was placed on a sound footing.

Palladium jewellery (Figure 1) is of interest as an alternative white jewellery metal because its low price and low density (compared with those of gold and platinum), coupled with its good white colour and tarnish resistance, make it a better low-cost alternative to 950 platinum than traditional cheaper options such as 18 and 14 carat white gold. In addition, retailers may be able to obtain more attractive margins.

The first presentation, 'The Working Properties for Jewelry Fabrication Using New Hard 950 Palladium Alloys', was by Professor Paolo Battaini (8853 SpA, Italy), who described progress to devel-

op two prototype 950 palladium alloys for wrought application. The initial work was based on palladium-copper (Pd-Cu) and palladium-gallium (Pd-Ga) alloys, with indium and other alloying additions.

The annealed hardness of the Pd-Ga alloy, at HV 170, was much higher than that of the Pd-Cu alloy at HV 70, and its melting range was substantially lower. As-cast ingots were subjected to cold rolling and annealing cycles down to thin sheet. This sheet was further subjected to a number of mechanical processing operations, and the evolution of the metallurgical structure and properties was followed. For the Pd-Ga alloy, this included roll forming with continuous tungsten inert gas (TIG) welding to form seamed tube, that was further drawn down to tube of 8.5 mm diameter (easily accomplished, but dependent on good lubrication). Other processes tested were the blanking of washers, drawing and ring rolling to form ring blanks as well as square bars being rolled and then drawn to wire of 0.7 mm diameter, using diamond nibs in the dies. Good lubrication was also important here. Tensile tests were performed on the wires. Typically, a cold-worked hardness of



Fig. 1. Working a palladium alloy ring (courtesy of Mann Design Group)

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Dave Schneller



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The Santa Fe Symposium on Jewelry Manufacturing Technology, 2000 Eddie Bell,2000-01-01 Gold Christopher Corti,Richard Holliday,2009-12-02 Gold is used in a wide range of industrial and medical applications and accounts for over 10 percent of the annual demand for metal worth billions of dollars annually While much has been written about the mystique and trade of gold very little has been written about the science and technology in which it is involved Edited by two respected auth The Santa Fe Symposium on Jewelry Manufacturing Technology 1989 Dave Schneller,1990 The Santa Fe Symposium on Jewelry Manufacturing Technology 2004 Eddie Bell,2004-01-01 The Santa Fe Symposium on Jewelry Manufacturing Technology 2004 Eddie Bell,2005-01-01 **The Santa Fe Symposium on Jewelry Manufacturing Technology, 2001** Eddie Bell,2001 *The Santa Fe Symposium on Jewelry Manufacturing Technology 1998* Dave Schneller,1998-01-01 **The Santa Fe Symposium on Jewelry Manufacturing Technology, 2002** Eddie Bell,2002-01-01 **The Santa Fe Symposium on Jewelry Manufacturing Technology 2016** ,2016 **The Santa Fe Symposium on Jewelry Manufacturing Technology 1999** Dave Schneller,1999 **The Santa Fe Symposium on Jewelry Manufacturing Technology, 1987** Dave Schneller,1988-01-01 The Santa Fe Symposium on Jewelry Manufacturing Technology 2006 Eddie Bell,2006-01-01 **The Santa Fe Symposium on Jewelry Manufacturing Technology 1997** Dave Schneller,1997-01-01 Handbook of Mechanical Nanostructuring Mahmood Aliofkhazraei,2016-05-02 Providing in depth information on how to obtain high performance materials by controlling their nanostructures this ready reference covers both the bottom up and the top down approaches to the synthesis and processing of nanostructured materials The focus is on advanced methods of mechanical nanostructuring such as severe plastic deformation including high pressure torsion equal channel angular processing cyclic extrusion compression accumulative roll bonding and surface mechanical attrition treatment As such the contents are inherently application oriented with the methods presented able to be easily integrated into existing production processes In addition the structure property relationships and ways of influencing the nanostructure in order to exhibit a desired functionality are reviewed in detail The whole is rounded off by a look at future directions followed by an overview of applications in various fields of structural and mechanical engineering With its solutions for successful processing of complex shaped workpieces and large scale specimens with desired properties this is an indispensable tool for purposeful materials design **The Santa Fe Symposium on Jewelry Manufacturing Technology 2003** Eddie Bell,2003-01-01 **The Santa Fe Symposium on Jewelry Manufacturing Technology 2008** Eddie Bell,2008-01-01 The Santa Fe Symposium on Jewelry Manufacturing Technology 2018 Eddie Bell,Marty Carr,Janet Haldeman,2018 The Santa Fe Symposium on Jewelry Manufacturing Technology, 1996 Dave Schneller,1996-01-01 **The Santa Fe Symposium on Jewelry Manufacturing Technology 2009** Eddie Bell,2009 **The Santa Fe Symposium on Jewelry Manufacturing Technology 2010** Eddie Bell,2010

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In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Santa Fe Symposium On Jewelry Manufacturing Technology 2000**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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