

## *Consulting Technician Specialist*

**Company Name: Technology Without Limits, Inc. USA**

**Company Mission: Evaluate & implement every possible technical, physical, and chemical process to save money and produce a high quality plating finish in less time. Provide technology in precious metal supply, application, and recovery for the metal surface finishing & electroplating industries.**

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**See TWL Products on: <http://www.sra-solder.com/palladium.htm>**

**Work History & Special Training:**

***2005-2008 Owner & operator of Technology Without Limits, Inc. USA. Specializing in the supply, application, and recovery of precious metal electroplating products, technology, & equipment for the jewelry industry in the USA and 12 countries around the world.***

***1992-2005 National Chain Group, Technical Director and Production Supervisor for precious metal surface finishing, protective coatings, and electroplating technologies. Special chemistry training under Dr Claudio Telatin from 1995-2008***

**Work History Responsibilities:**

***Responsibilities including manufacturing, packaging and distribution of precious metals electroplating chemistry & related products. Manufacturing and assembly of complete electroplating systems including equipment, chemistry, and consumables. Manufacturing and assembly of precious metal recovery systems for the electroplating industry. Precious metal market research & purchasing programs. Metal surface finishing processes. Precious metal electroplating processes. Precious metal recovery & refining technology & process. Analysis for precious metal plating bath solutions, water treatment & discharge regulations regarding EPA, DEM, and Warwick Sewer Authority. Productivity and cost reduction research & development related to labor, equipment, chemicals, and precious metals. Production management for the production of over 6 million precious and non-precious metal fashion & pendant chains, bracelets, and other jewelry items each year from the period 1992-2005.***

## *Consulting Technician Rhodium & Palladium Specialist*

### **Specialty Consulting: Rhodium & Palladium Plating Technologies**

- *Rhodium & Palladium precious metal plating solution supply*
- *Rhodium & Palladium plating bath analysis*
- *Cost reduction technologies related to all aspects of Rhodium & Palladium plating process*
- *Whitener and brightener additives for Rhodium & Palladium*
- *Recovery and refining of Rhodium & Palladium from rinse water and spent plating bath solution.*
- *Training related to production and maintenance of plating equipment, solutions, and processes*
- *Vibration & Micro-Agitation technology to improve Rhodium & Palladium plating deposit color and quality while reducing production cost.*
- *Custom plating system design from mini table top plating to large production facility*
- *Metal surface finishing technologies, equipment, and process*
- *Low Stress Palladium & Rhodium Plating Formula for electronics*
- *Plating Rack design and manufacturing*
- *Anodes design and manufacturing: Platinized Titanium & Platinum Clad Niobium*
- *Plating equipment and accessories design & supply*
- *Research & Development for proprietary Palladium & Rhodium plating process*

### **Important Companies I have Consulted & Supplied In Recent Years:**

- *Hallmark/Excell Cookson Company, USA*
- *Stuller, Inc. USA*
- *National Chain Group, USA/Dominican Republic*
- *Stern Metals, USA/Dominican Republic*
- *Aurafin Group, USA/Dominican Republic*
- *King Halim Jewelry, Indonesia*
- *UBS Gold, Indonesia*
- *Oroexcel, Mexico*
- *Madisa, Mexico*
- *Joskes, Mexico*
- *Villalpando, Mexico*
- *JTE DMCC, Dubai*
- *Dolath Inc., USA*
- *Hannoush Jewelers, USA & Canada*
- *Jewel Craft, USA*
- *AB Group, USA*
- *Krohn Industries, USA*
- *Stan Rubinstein Assoc., Inc, USA*
- *Advanced Chemical Company, USA*

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