Guangdong Zhiyuan New Material Co., Ltd.

Contact Information
Betty Liu
Sales
Email: Betty@zhiyuanm.com
Tel: +86-20-66233582;
+86-13-8222-08925

Lilian Li
Purchasing
E-mail: Lilianli@zhiyuanm.com
Tel: +86-20-66233589;
+86-13-7280-94794

Factory Add:
Yingde City, Guangdong Province

Office Add:
Rm 1909, 19F Bldg A3,
Poly Tel To Wun, No.290,
East Hanxi Avenue,
Panyu District,
Guangzhou City,
511495, China
www.zhiyuanm.com

We focus on producing Ta/Nb compounds and metals, we are one of strongest manufacturing enterprises in China. Our products include: Normal grade and high purity grade Ta/Nb oxide, Ta/Nb bar and ingot.

Biggest
The biggest Ta/Nb hydrometallurgical smelter in China
- Far ahead of 2nd place

High quality
- Purity can be 99.995%
- Stable quality

Strong R&D
- Strong processing ability for raw material
- Can be customized

Stable
- Expanding production capacity
(2000 tons (Ta2O5 + Nb2O5) by end of 2019)
- Supply stability
Contents

5 President’s Letter
6 About the T.I.C.
7 Executive Committee, Subteams and Officers
9 Director’s Report 2017-2018
14 Who is the T.I.C.?
15 Presidents of the Association
17 General Assemblies and Symposia
19 Antitrust Compliance Policy
21 Speakers’ Biographies
25 Directory of Members
41 Applying for T.I.C. Membership
42 Benefits of T.I.C. Membership

Tantalum-Niobium International Study Center (T.I.C.)

Address: Chaussée de Louvain 490, 1380 Lasne, Belgium
Phone: +32 2 649 51 58
Skype: T.I.C._Director
Email: info@tanb.org
Website: www.TaNb.org
VAT no.: BE0414.408.447
Legal status: The T.I.C. is an AISBL under Belgian law.

Legal counsel: Jones Day
4 Rue de la Régence, 1000 Brussels, Belgium
https://www.jonesday.com/brussels/

Accountant: Bofidi Brussels
Tervurenlaan 32, 1040 Brussels, Belgium
http://www.bofidi.eu/

Auditor: JCB RE
Avenue des Héros 41, 1160 Brussels, Belgium
INCREASED PRODUCTIVITY THROUGH PROCESSING & RELIABLE, REGULAR SUPPLY.

CRONIMET CENTRAL AFRICA AG is your partner with 10 years’ experience in trading, financing and logistic organisation of minerals from Central Africa.

MINERALS SUPPLY AFRICA LTD is your partner in Central Africa with 10 years of history of purchasing mine produced Tantalite, Cassiterite and Wolframite.

CRONIMET MINING PROCESSING is supplying mining companies with mining know-how and technical processing solutions to increase the productivity and output of mines.

MORE INFO: WWW.CRONIMET-MINING.COM
Dear Fellow Members and Friends,

It is my pleasure to welcome you to the 2018 Annual Review, published to mark our Fifty-ninth General Assembly in Kigali, Rwanda.

Hopefully, you will have noticed the beginning of the changes to our organization that I discussed in Vancouver in 2017. This Annual Review highlights some of the initiatives we have had underway since our last meeting.

We are seeking to improve our industry for our members and guide issues that impact our businesses and activities relating to tantalum and niobium.

While our efforts to professionalize our organization continue, the T.I.C. expertise fundamentally must come from our members. We can only succeed in improving the industry and actively promoting our two metals with your help. This can range from simple suggestions, criticisms, and recommendations to being willing to serve on our various subteams and the Executive Committee.

In this booklet, you will find details of our current corporate and associate members, with more to hopefully be elected in Kigali, Rwanda. In addition, you will find biographies of the authors of the presentations planned during our technical sessions at the General Assembly.

Finally, I would like to thank our members who have supported this Annual Review through their advertisements and also our General Assembly sponsors: Cronimet Central Africa AG, Jiujiang Zhongao Tantalum & Niobium Co. Ltd and Krome Commodities Ltd. I would also like to recognize and appreciate the many contributions of our T.I.C. staff, my fellow Executive Committee members, and particularly all our corporate and associate members who have made this organization what it is today and what it hopes to become in the future.

Sincerely yours,

John Crawley
President
About the T.I.C.

Since its founding, the Tantalum-Niobium International Study Center (T.I.C. or Association) has grown and developed to encompass the changing nature of the tantalum and niobium industries and will continue in the same spirit in facing future challenges. Today our membership represents every aspect of the global tantalum and niobium industries.

The Association
- An international, non-profit association founded in 1974 under Belgian law.
- Around 90 members from 26 countries involved with all aspects of the tantalum and niobium industry supply chain (including mining, trading, processing, recycling, metal fabrication, capacitor manufacturing, medical... see page 14).
- The Association is run by its Executive Committee, whose officials are elected annually by the members. The Committee reflects the range of members’ activities and their geographic spread.
- The Committee is led by the President. Presidents have been drawn from all sectors of the industry and from many parts of the world (see page 15).
- The T.I.C.'s office is led by the Director, who is supported by the Secretary General, the Technical Officer, and external consultants and service providers.

Objectives
- Increase awareness and promote the remarkable properties of tantalum and niobium in all their forms.
- Disseminate information on any matter affecting that industry, excluding price and related information and any other proprietary information.
- Address major issues and challenges facing its industry, including critical raw material and conflict minerals legislation, artisanal and small-scale mining (ASM), and transporting naturally occurring radioactive materials (NORM).
- Organize a General Assembly of the membership in October each year for technical presentations and members’ annual general meeting. Often the location is chosen to allow a tour of a member company or industrial facility.
- Publish a quarterly newsletter, the Bulletin, covering interesting and informative articles about the T.I.C. and the global tantalum and niobium industries.
- Collect statistics from member companies (via an independent third-party to ensure confidentiality) on tantalum and niobium production, shipments and consumption. Statistics reports are shared with participating members.
Executive Committee, Subteams and Officers

The Executive Committee is drawn from the membership and committee members may be, but need not also be, the delegates of member companies. The Executive Committee named here was elected by the T.I.C. members at the 58th General Assembly, and consists of (in alphabetical order of member’s surname):

Conor Broughton  conor@amgroup.uk.com
John Crawley (President)  jcrawley@rmmccom.hk
David Gussack  david@exotech.com
Jiang Bin  jiangb_nniec@oticom.cn
Janny Jiang  jiujiang_jx@yahoo.com
Kokoro Katayama  kokoro@raremetal.co.jp
Raveentiran Krishnan  raveentiran@msmelt.com
Ben Mwangachuchu  bmwangaceo@smb-sarl.com
Candida Owens  owens.candida@cronimet.ch
Daniel Persico  danielpersico@kemet.com
Alexey Tсораyev  tsorayevaa@ulba.kz

The Executive Committee meeting in Brussels, Belgium, April 2018.
The 2018 election to the Executive Committee takes place on October 15th during the Association’s annual general meeting (AGM) at the 59th General Assembly in Kigali, Rwanda. Those elected stand for one year and there is a maximum of twelve members, according to our Charter of association.

**Subteams**

Subteams are advisory groups tasked by the Executive Committee with specific projects. The Director sits on all subteams. In September 2018, the following subteams were operational:

**Marketing:**
- Daniel Persico (chair)
- Fabiano Costa
- Raveentiran Krishnan
- Emma Wickens

**Supply Chain:**
- John Crawley (chair)
- Conor Broughton
- Raveentiran Krishnan
- Jim Maguire
- Candida Owens
- William Shannon

We are always looking for enthusiastic T.I.C. members to join our range of subteams. If you are interested, please contact Emma Wickens. Members who wish to make nominations to serve on the Executive Committee must do so at least one month before the annual general meeting.

**Officers of the T.I.C.**

While the Association’s main office is in Lasne, Belgium, staff also operate from the UK (Director) and the USA (Technical Officer).

**Director**
- Roland Chavasse
  - roland.chavasse@tanb.org

**Secretary General**
- Emma Wickens
  - emma.wickens@tanb.org

**Technical Officer**
- David Knudson
  - david.knudson@tanb.org
Dear Members and Stakeholders,

The last twelve months have been an exciting time at the T.I.C.; several long-term projects have starting to show results, our membership is stable, and careful planning has produced a healthier financial situation than had been budgeted.

Since our 58th General Assembly in Vancouver, Canada, this Association has continued to invest in increasing and improving the services it offers. We have firm foundations for the future. In particular, mention must be made of Emma Wickens’s indefatigable work on our Kigali conference and David Knudson’s exertions on the improved statistics report.

An association is only ever as strong as its members and there are currently eighty-four commercial members and four associate members (see page 25 onwards or www.TaNb.org). At our 58th General Assembly we welcomed six new corporate members and one associate member*:

- **Mining Mineral Resources Sarl**, a producer of tin and tantalite with operations in the Democratic Republic of Congo (DRC). MMR has over 10 years’ experience in producing traceable tin and tantalum concentrates.

- **Mitsubishi Corporation RtM Japan Ltd**, a metals and mineral resources trading company, which deals in a wide spectrum of general metal resources and materials. It is a subsidiary of Mitsubishi Corporation.

- **Pilbara Minerals Ltd**, an emerging lithium and tantalum producer focused on the development of the Pilgangoora lithium-tantalum project, located in the Pilbara region of Western Australia.

- **Standard Die International**, a US-based specialist manufacturer of stamped and drawn cups, cans, crucibles and cones made from refractory metals. The company has been involved in tantalum and niobium for over 40 years.

- **Tantalex Resources Corporation**, a Canadian-listed mining company engaged in developing tantalum mining in Katanga province, DRC, through its wholly owned subsidiary, United Materials Congo SARL (UMC).

- **ThreeArc Mining LLC**, a subsidiary of Vostok engineering that is developing Tomtor, a very large and rich niobium, rare earth and scandium deposit located in the north of the federal Republic of Yakutia (Sakha), Russia.

- **International Conference on the Great Lakes Region (ICGLR)** (associate member), an African intergovernmental organisation involved in the mineral supply chain, including operating the Regional Certification Mechanism.

* Non-members interested in joining the T.I.C. can find details of the many benefits of membership on page 42 and information about how to join on page 41.

Roland Chavasse, T.I.C. Director
Metals from Around the World

Simplicity · Sterling Service · Long-Term Partnership

AQSIQ LICENCE No A82610066

OUR PRODUCT RANGE

BASE METALS
- Tin
- Copper & Alloys
- Aluminium & Alloys
- Lead

FERROUS
- Shredded Scrap
- HMS 1 & 2
- Cast Iron Scrap

FERRO ALLOYS
- Ferro Silicon
- Silico Manganese
- Ferro Niobium
- Ferro Tungsten

MINOR METALS
- Niobium
- Tantalum
- Tungsten

23, Ashburton Avenue, Ilford, Essex IG3 9ET, United Kingdom
Tel. +44 7771788256, Fax. +44 2037193106, E-mail: psmony48@gmail.com
www.kromecommodities.com
Registered in England & Wales 08860786
Marketing

In 2017 the T.I.C. established an annual science award to recognise excellence in published tantalum research, as part of our aim to increase awareness of the many unique properties of tantalum products and the applications in which they excel*.

It was named the Anders Gustaf Ekeberg Tantalum Prize (‘Ekeberg Prize’) in honour of the Swedish chemist who discovered tantalum in 1802 and the first tantalum medal will be awarded at our 59th General Assembly in October 2018.

The shortlist

This year there were six publications shortlisted for the prize, showing the great versatility of tantalum. Two publications describe improved catalysts, while the others cover surgical implants, solid state memory devices, and a new refining process for tantalum ore. The sixth publication is the first comprehensive treatise on the science, manufacture and applications of tantalum capacitors (full details and links to all shortlisted publications can be found at www.tanb.org/view/prize).

The judging procedure

The shortlist is judged by an independent panel of experts who have been selected from around the world to provide an impartial assessment on the technical merit of the shortlisted papers. In 2018 the T.I.C. was privileged to have on the panel (alphabetical by surname):

- Richard Burt, Kielsinn Inc., Canada (Chair)
- Professor Elizabeth Dickey, North Carolina State University, United States
- Magnus Ericsson, Luleå University of Technology, Sweden
- Academician He Jilin, China Academy of Engineering, China
- Dr Axel Hoppe, Commerce Resources / consultant, Canada / Germany
- Professor Animesh Jha, University of Leeds, UK
- Dr Nedal Nassar, U.S. Geological Survey (USGS), United States

The panel of experts praised the very high standard of all shortlisted works, describing them as “challenging the boundaries of current knowledge of tantalum”.

* Although the T.I.C. represents and supports both tantalum and niobium equally, the Ekeberg Prize will focus only on tantalum, but this is only because CBMM’s Charles Hatchett Award (www.charles-hatchett.com) already does an excellent job of recognising niobium published research.
After considerable deliberation the winner of the Anders Gustaf Ekeberg Tantalum Prize 2018 was voted to be Dr Yuri Freeman of KEMET Electronics, for his 2018 book ‘Tantalum and Niobium-Based Capacitors’.

The judges stated that Dr Freeman’s book provided a very good scientific overview, providing basic insight into the manufacturing process of Ta-based electrolytic capacitors, a subject which had been poorly served until now.

To be eligible for the 2019 Ekeberg Prize a publication must be about tantalum, be published in English, and be dated from 1st October 2017 to 30th April 2019.

Statistics

The T.I.C. statistics service, based on members’ quarterly data, has provided a useful guide to trends in the industry for many years. However, times change and in early 2018 we revealed the results of a long-term plan: using international trade data to augment members’ data. This major initiative has been in development since March 2016 and the new report provides members with far greater understanding of international tantalum and niobium markets, and therefore more value.

Members’ data is held by the independent data collector, Miller Roskell Ltd, a chartered accountant, and members report high confidence that their data is handled confidentially. T.I.C. staff have no access to an individual member’s data, only the aggregate totals and international trade data. We welcome feedback from members about the statistics report and how it can be improved even further.

Supply Chain

Over the last twelve months tantalum and niobium have been the subject of international trade policies on several occasions, not least concerning tariffs between the U.S. and China. In these uncertain times we believe it is more important than ever to build a strong community of tantalum and niobium stakeholders to represent the interests of our industry.

In the US there has been considerable noise around the U.S. Dodd-Frank Act, Section 1502, the regulation covering reporting requirements for U.S. companies sourcing tantalum, tin, tungsten and gold from the DRC and neighbouring countries. However, there appears to have been little real change to date.

In the European Union (EU) preparations have continued for the Conflict Minerals Regulation that will come into force on January 1st 2021. We are actively engaged with competent authorities and the European Commission on this issue, both directly and through our membership of the European Partnership for Responsible Minerals (EPRM).
In July we asked the British Government to clarify its position on the EU Conflict-Mineral Regulation should the UK leave the EU in 2019 and they confirmed that if the UK does leave the EU, which looks likely, then the UK will immediately adopt an identical law. On a related subject, the T.I.C. continued to sit on the Governance Committee of ITSCI Programme and we were very pleased when the OECD praised how closely ITSCI is aligned with its due diligence guidance, which bodes well for ITSCI to be recognised under the EU regulation.

**Transport of NORM**

Over the last 18 months considerable investment has been made in developing guidance on transporting tantalite-columbite minerals that contain naturally occurring radioactive materials (NORM). This is a critical subject for many T.I.C. members since many ore bodies containing tantalite also contain the radioactive elements thorium (Th) and uranium (U). The guidance has been independently checked by experts at the International Atomic Energy Agency (IAEA) and TFWG. It has been translated into French, Chinese, Japanese, Portuguese, Russian and Spanish, and distributed extensively, including on our website.

The T.I.C. attended three stakeholder meetings at the IAEA in Vienna, Austria, and joined EAN-NORM group. We continued to sit on the Transport Facilitation Working Group (TFWG) and hold observer status on the IAEA’s Transport Safety Standards Committee (TRANSSC).

**Looking ahead**

The Executive Committee, subteams and staff are constantly working on ways to better promote tantalum and niobium, further develop T.I.C.’s value proposition and invest in the future of the Association. The current program of improvements is being funded from the surpluses that were recorded each financial year for over a decade and while this will result in a net financial deficit in short term, the total members’ funds will not fall below two years’ worth of core operating costs. The Executive Committee is confident that member companies will appreciate the improvements.

If your business is tantalum or niobium and you’re not yet a member you should consider joining; and if you are already a member then I look forward to hearing your advice on what the T.I.C. can do for you. After all, this is your industry and together we are stronger.

**Roland Chavasse**, Director

London, UK, September 2018
Who is the T.I.C.? *

* This snapshot is based on T.I.C. membership in January 2018

**Members by country**

- China: 17%
- United Kingdom: 15%
- United States: 13%
- Germany: 7%
- Japan: 7%
- Brazil: 6%
- Malaysia: 3%
- Russia: 3%
- DR Congo: 3%
- Austria: 2%

**Members by location**

[Map of members around the world]

**Members by sector**

- Processing: 20%
- Secondary processing (Ta): 15%
- Mining: 10%
- Recycling: 7%
- Trading: 5%
- Due diligence programme/consultancy: 5%
- Research consultancy: 5%
- Tin smelting: 4%
- Metalwork/fabrication using Ta: 4%
- Mining (Nb focus): 3%
- Secondary processing (Nb): 3%
- Capacitor manufacture: 3%
- Secondary Processing (Nb): 3%
- Superalloys: 2%
- Associate members: 1%

© Tantalum-Niobium International Study Center (T.I.C.) 2018
<table>
<thead>
<tr>
<th>Year</th>
<th>President</th>
<th>Company/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1974</td>
<td>Cornelius Herkströter</td>
<td>Thaisarco</td>
</tr>
<tr>
<td>1975</td>
<td>Herman Becker-Fluegel</td>
<td>National Resources Trading / Tanco</td>
</tr>
<tr>
<td>1976</td>
<td>Paul Leynen</td>
<td>Zairetain</td>
</tr>
<tr>
<td>1977</td>
<td>Reinhard Deil</td>
<td>GfE</td>
</tr>
<tr>
<td>1978</td>
<td>Joseph Abeles</td>
<td>Kawecki Berylco Industries</td>
</tr>
<tr>
<td>1979</td>
<td>Brian Reynolds</td>
<td>Thaisarco</td>
</tr>
<tr>
<td>1980</td>
<td>George Korinek</td>
<td>Hermann C. Starck Inc.</td>
</tr>
<tr>
<td>1981</td>
<td>Conrad Brown</td>
<td>Fansteel</td>
</tr>
<tr>
<td>1982</td>
<td>John Linden</td>
<td>Greenbushes Tin</td>
</tr>
<tr>
<td>1983</td>
<td>Robert Franklin</td>
<td>STC Components</td>
</tr>
<tr>
<td>1984</td>
<td>Carroll Killen</td>
<td>Sprague Electric Company</td>
</tr>
<tr>
<td>1985</td>
<td>Chikara Hayashi</td>
<td>Vacuum Metallurgical Company</td>
</tr>
<tr>
<td>1986</td>
<td>Rod Tolley</td>
<td>Datuk Keramat Smelting</td>
</tr>
<tr>
<td>1987</td>
<td>Hans-Jürgen Heinrich</td>
<td>GfE</td>
</tr>
<tr>
<td>1988</td>
<td>Harry Stuart</td>
<td>Niobium Products Company</td>
</tr>
<tr>
<td>1989</td>
<td>George Korinek</td>
<td>NRC</td>
</tr>
<tr>
<td>1990</td>
<td>Peter Adams</td>
<td>Thaisarco</td>
</tr>
<tr>
<td>1991</td>
<td>Yoichiro Takekuro</td>
<td>Vacuum Metallurgical Company</td>
</tr>
<tr>
<td>1992</td>
<td>Peter Maden</td>
<td>Vishay Sprague</td>
</tr>
<tr>
<td>1993</td>
<td>Hubert Hutton</td>
<td>Sogem-Afrimet</td>
</tr>
<tr>
<td>1994</td>
<td>Peter Kählert</td>
<td>H.C. Starck GmbH</td>
</tr>
<tr>
<td>1995</td>
<td>Robert Barron</td>
<td>Cabot Performance Materials, David Maguire, KEMET</td>
</tr>
<tr>
<td>1996</td>
<td>Yeap Soon Sit</td>
<td>S.A. Minerals</td>
</tr>
<tr>
<td>1997</td>
<td>William Millman</td>
<td>AVX</td>
</tr>
<tr>
<td>1998</td>
<td>John Linden</td>
<td>Sons of Gwalia</td>
</tr>
<tr>
<td>1999</td>
<td>Charles Culbertson II</td>
<td>KEMET Electronics</td>
</tr>
<tr>
<td>2000</td>
<td>Thomas Odle</td>
<td>Cabot Performance Materials</td>
</tr>
<tr>
<td>2001</td>
<td>Axel Hoppe</td>
<td>H.C. Starck GmbH</td>
</tr>
<tr>
<td>2002</td>
<td>Josef Gerblinger</td>
<td>Epcos</td>
</tr>
<tr>
<td>2003</td>
<td>David Reynolds</td>
<td>KEMET Electronics</td>
</tr>
<tr>
<td>2004</td>
<td>William Millman</td>
<td>AVX</td>
</tr>
<tr>
<td>2005</td>
<td>William Millman</td>
<td>AVX</td>
</tr>
<tr>
<td>2006</td>
<td>Axel Hoppe</td>
<td>H.C. Starck GmbH</td>
</tr>
<tr>
<td>2007</td>
<td>William Young</td>
<td>Cabot</td>
</tr>
<tr>
<td>2008</td>
<td>José Isildo de Vargas</td>
<td>CBMM</td>
</tr>
<tr>
<td>2009</td>
<td>Richard Burt</td>
<td>GraviTa Inc.</td>
</tr>
<tr>
<td>2010</td>
<td>Richard Burt</td>
<td>GraviTa Inc.</td>
</tr>
<tr>
<td>2011</td>
<td>José Isildo de Vargas</td>
<td>CBMM</td>
</tr>
<tr>
<td>2012</td>
<td>Daniel Persico</td>
<td>KEMET Electronics</td>
</tr>
<tr>
<td>2013</td>
<td>Daniel Persico</td>
<td>KEMET Electronics</td>
</tr>
<tr>
<td>2014</td>
<td>David Henderson</td>
<td>Rittenhouse International Resources</td>
</tr>
<tr>
<td>2015</td>
<td>David Henderson</td>
<td>Rittenhouse International Resources</td>
</tr>
<tr>
<td>2016</td>
<td>David Henderson</td>
<td>Rittenhouse International Resources</td>
</tr>
<tr>
<td>2017</td>
<td>John Crawley</td>
<td>Minerals Resources International AG</td>
</tr>
</tbody>
</table>
H.C. Starck Tantalum and Niobium GmbH

Over 50 years of expertise and highest competency in processing and development of Ta- & Nb-based materials for high-end applications

**Electronics**
Capacitors; Sputter targets for barrier layers in semiconductors

**Medical & Optics**
High-voltage, high reliability capacitors
Ophthalmic and specialty glasses and lenses

**Aviation & Energy**
Superalloy additives for production of turbine parts

**Additive Manufacturing**
Customized powders for 3D printing applications

www.hcstarck-tantalum-niobium.com
info-ta-nb@hcstarck.com

Member of JX Nippon Mining & Metals Group
### General Assemblies and Symposia

<table>
<thead>
<tr>
<th>General Assembly</th>
<th>Symposium</th>
<th>Month and year</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td></td>
<td>March 1974</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>2nd</td>
<td></td>
<td>September 1974</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>3rd</td>
<td></td>
<td>March 1975</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>4th</td>
<td></td>
<td>September 1975</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>5th</td>
<td></td>
<td>March 1976</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>6th</td>
<td></td>
<td>October 1976</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>7th</td>
<td>1st</td>
<td>May 1977</td>
<td>Winnipeg, MB, Canada</td>
</tr>
<tr>
<td>8th</td>
<td></td>
<td>October 1977</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>9th</td>
<td>1st</td>
<td>May 1978</td>
<td>Nürnberg, West Germany</td>
</tr>
<tr>
<td>10th</td>
<td></td>
<td>October 1979</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>11th</td>
<td></td>
<td>May 1979</td>
<td>Perth, WA, Australia</td>
</tr>
<tr>
<td>12th</td>
<td></td>
<td>October 1979</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>13th</td>
<td></td>
<td>May 1980</td>
<td>Torquay, United Kingdom</td>
</tr>
<tr>
<td>14th</td>
<td></td>
<td>October 1980</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>15th</td>
<td></td>
<td>May 1981</td>
<td>Goslar / Bad Harzburg, West Germany</td>
</tr>
<tr>
<td>16th</td>
<td></td>
<td>October 1981</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>17th</td>
<td></td>
<td>June 1982</td>
<td>Tulsa, OK, United States</td>
</tr>
</tbody>
</table>

---

### The MMTA’s International Minor Metals

**9-11 April, 2019**

**at the Sheraton Grand Hotel & Spa, Edinburgh, UK**

*Over 300 attendees expected*

**Early-Bird Member & Non-member Rates Available**

*(GBP650/950 +UK vat until 25th October 2018)*

*Golf Day—8th April*

*NEW Spouse Programme for 2019*
<table>
<thead>
<tr>
<th>Date</th>
<th>Month</th>
<th>City, Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>18th</td>
<td>October 1982</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>19th</td>
<td>May 1983</td>
<td>Penang, Malaysia</td>
</tr>
<tr>
<td>20th</td>
<td>November 1983</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>21st</td>
<td>June 1984</td>
<td>Stockholm, Sweden</td>
</tr>
<tr>
<td>22nd</td>
<td>October 1984</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>23rd</td>
<td>June 1985</td>
<td>Boston, MA, United States</td>
</tr>
<tr>
<td>24th</td>
<td>October 1985</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>25th</td>
<td>May 1986</td>
<td>Kobe, Japan</td>
</tr>
<tr>
<td>26th</td>
<td>October 1986</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>27th</td>
<td>June 1987</td>
<td>Rio de Janeiro, Brazil</td>
</tr>
<tr>
<td>28th</td>
<td>October 1987</td>
<td>Brussels, Belgium</td>
</tr>
<tr>
<td>29th</td>
<td>November 1988</td>
<td>Orlando, FL, United States</td>
</tr>
<tr>
<td>30th</td>
<td>October 1989</td>
<td>Frankfurt, Germany</td>
</tr>
<tr>
<td>31st</td>
<td>November 1990</td>
<td>Perth, WA, Australia</td>
</tr>
<tr>
<td>32nd</td>
<td>October 1991</td>
<td>Philadelphia, PA, United States</td>
</tr>
<tr>
<td>33rd</td>
<td>November 1992</td>
<td>Phuket, Thailand</td>
</tr>
<tr>
<td>34th</td>
<td>October 1993</td>
<td>Vienna, Austria</td>
</tr>
<tr>
<td>35th</td>
<td>October 1994</td>
<td>Aizu-Wakamatsu, Japan</td>
</tr>
<tr>
<td>36th</td>
<td>September 1995</td>
<td>Goslar, Germany</td>
</tr>
<tr>
<td>37th</td>
<td>October 1996</td>
<td>Greenville, SC, United States</td>
</tr>
<tr>
<td>37th</td>
<td>October 1996</td>
<td>Greenville, SC, United States</td>
</tr>
<tr>
<td>38th</td>
<td>October 1997</td>
<td>Xian, Shaanxi, China</td>
</tr>
<tr>
<td>39th</td>
<td>October 1998</td>
<td>Prague, Czech Republic</td>
</tr>
<tr>
<td>40th</td>
<td>October 1999</td>
<td>Perth, WA, Australia</td>
</tr>
<tr>
<td>41st</td>
<td>October 2000</td>
<td>San Francisco, CA, United States</td>
</tr>
<tr>
<td>42nd</td>
<td>October 2001</td>
<td>Rio de Janeiro, Brazil</td>
</tr>
<tr>
<td>43rd</td>
<td>October 2002</td>
<td>Kyoto, Japan</td>
</tr>
<tr>
<td>44th</td>
<td>October 2003</td>
<td>Lisbon, Portugal</td>
</tr>
<tr>
<td>45th</td>
<td>October 2004</td>
<td>Philadelphia, PA, United States</td>
</tr>
<tr>
<td>46th</td>
<td>October 2005</td>
<td>Pattaya, Thailand</td>
</tr>
<tr>
<td>47th</td>
<td>October 2006</td>
<td>Innsbruck, Austria</td>
</tr>
<tr>
<td>48th</td>
<td>October 2007</td>
<td>Rio de Janeiro, Brazil</td>
</tr>
<tr>
<td>49th</td>
<td>October 2008</td>
<td>Shanghai, China</td>
</tr>
<tr>
<td>50th</td>
<td>October 2009</td>
<td>Tallinn, Estonia</td>
</tr>
<tr>
<td>51st</td>
<td>October 2010</td>
<td>Lake Tahoe, NV, United States</td>
</tr>
<tr>
<td>52nd</td>
<td>October 2011</td>
<td>Almaty, Kazakhstan</td>
</tr>
<tr>
<td>53rd</td>
<td>October 2012</td>
<td>Cape Town, South Africa</td>
</tr>
<tr>
<td>54th</td>
<td>October 2013</td>
<td>York, United Kingdom</td>
</tr>
<tr>
<td>55th</td>
<td>October 2014</td>
<td>New York, NY, United States</td>
</tr>
<tr>
<td>56th</td>
<td>October 2015</td>
<td>Penang, Malaysia</td>
</tr>
<tr>
<td>57th</td>
<td>October 2016</td>
<td>Toulouse, France</td>
</tr>
<tr>
<td>58th</td>
<td>October 2017</td>
<td>Vancouver, BC, Canada</td>
</tr>
<tr>
<td>59th</td>
<td>October 2018</td>
<td>Kigali, Rwanda</td>
</tr>
</tbody>
</table>

**Save the date:** T.I.C.’s 60th General Assembly will be on 13th to 16th October 2019
Antitrust Compliance Policy

This policy was adopted by the T.I.C. at the Fifty-seventh General Assembly held on 17th October 2016.

**Purpose, Scope and Implementation:** The T.I.C. is fully committed to ensuring that all of its activities are carried out in full compliance with all applicable antitrust legislation. Failure to comply with this Policy may result in the association and/or its members violating antitrust legislation and being subject to the imposition of substantial fines or even criminal penalties for individuals.

All T.I.C. employees, consultants and elected representatives are under an obligation to conduct all business dealings in accordance with any applicable antitrust legislation. The T.I.C. employees, consultants and elected representatives must sign a written undertaking to the effect that they have read and understood the Policy and that they agree to adhere to that Policy in the conduct of their business activities.

Members are to ensure that any of their employees involved in T.I.C. activities and all those carrying out activities within the association on behalf of members are fully informed about the T.I.C.’s Policy. Applicant members will be asked to sign a statement to the effect that they have read and understood the T.I.C.’s Policy and that they will adhere to that Policy if admitted.

T.I.C. activities. Information concerning the Policy is available on the T.I.C.’s web site. All meeting agendas will be sent in advance of the meeting, and they will contain a statement to the following effect: “This meeting will be conducted in full compliance with the T.I.C.’s Antitrust Compliance Policy”. All chairpersons will be required to remind group members of the contents of the T.I.C.’s Policy on a regular basis. Minutes of the meetings will be distributed to the participants within a reasonable time after the meetings.

Escalation of concerns. All employees, consultants and members and their representatives are required to report any possible breaches of the Policy. Generally, all actual or potential breaches should immediately be reported to T.I.C.’s legal counsel. The contact information is as follows: Jones Day, Att. Luc Houben, 4 Rue de la Régence, 1000 Brussels, Belgium; lhouben@jonesday.com; phone: +32 2 645 14 11; https://www.jonesday.com/brussels/

For further information regarding the basic concepts of antitrust law, including cartel agreements, and types of anti-competitive agreements such as price-fixing, market sharing, quantity-fixing and information exchange, please visit the T.I.C. website at https://www.tanb.org/view/antitrust-compliance-policy
Tantalum and Niobium Suppliers for the Capacitor Electronics, Sputtering Target & Super Alloy Industries Worldwide

**Tantalum Products Supplied:**
- Tantalum Electron Beam Ingot, Tantalum Vacuum Arc Ingot
- Tantalum Electron Beam Chips, Tantalum Powder
- Tantalum Wire, Tantalum Furnace Parts, Tantalum Strip
- Tantalum Foil, Tantalum Plates – Blanks

**Niobium products supplied:**
- Niobium Electron Beam Ingot, Niobium Vacuum Arc Ingot
- Niobium Electron Beam Chips, Niobium Plate, Niobium Wire
- Niobium Oxide, Niobium Strip, Niobium Foil

**Industries Served:**
- Consumer Electronics
- Military Electronics
- Automotive Electronics
- Vacuum Melting
- Sputtering Target
- Deep Drawing
- Medical

A&R Merchants Inc. is a leader in the supply of conflict free Tantalum & Niobium products

Visit our website to view our ethics policy
armerchants.com • 800-805-9150
Biographies are of the lead author of presentations (alphabetical by surname, not in running order).

**Hillary Amster, Responsible Minerals Initiative (RMI)**

*Risk-based due diligence and the RMAP by Hillary Amster and Leah Butler*

Hillary Amster is the Audit Program Manager at the Responsible Minerals Initiative (RMI), managing the Responsible Minerals Assurance Process (RMAP) on behalf of the RMI’s member companies. In addition to the audit program, Hillary leads workgroups related to conducting due diligence on the supply chain to ensure responsible sourcing of 3TG. Previously, she consulted Fortune 500 companies and worked at a variety of international human rights organizations, both in the U.S.A. and elsewhere. She holds a law degree with a certificate in international human rights from the University of San Francisco School of Law, and a Bachelors in Philosophy and Italian Studies from Tufts University.

**Ken Brinsden, Pilbara Minerals Ltd**

*Stable source of tantalum from Western Australia by Ken Brinsden and Anand Sheth*

Ken Brinsden is a Mining Engineer with over 25 years’ experience in surface and underground mining operations, including roles in mine management, production, brown-field and green-field development roles, across multi-commodities. Most recently Mr Brinsden was Managing Director at Atlas Iron, contributing to the substantial growth of the company from a junior explorer, to a significant iron ore producer. Mr Brinsden joined Pilbara Minerals as Chief Executive Officer in January 2016, was appointed Managing Director and CEO in May 2016 and has led the development of the company to become one of the world’s leading lithium raw materials players and achieve entry to the ASX 200.

**John Crawley, Minerals Resources International AG**

*Production of tantalite in Tanganyika Province of the DRC by John Crawley*

John Crawley is the Managing Director and a shareholder of Minerals Resources International AG (MRI), and the General Manager of MRI’s local companies: Tantalum Mining Katanga S.A.R.L. (TMK) and Kisengo Mining Company S.A.R.L. John supervised the technical transfer by MRI of technology for the construction of a state-of-the-art refinery for processing tantalum and niobium concentrates. Prior to MRI, John founded and acted as Chief Executive Officer, Director and shareholder of Niotan, Inc, one of the world’s premier producers of high capacitance tantalum powder. John earned a BSc in Chemistry from Occidental College and a Juris Doctor from Loyola Law School, both in Los Angeles, California, USA.

**Louis Gallois, Orano TN / TN International**

*Challenges and solutions for the transport of tantalum-niobium ores with trace radionuclides by Louis Gallois*

Louis Gallois is Business Development Manager at Orano TN and has extensive experience of Class 7 transport around the world. This includes managing all stages in the supply chain (mine, conversion site, enrichment plant, fuel maker site, nuclear plant) and the supporting services linked to such transport (package manufacturing, leasing of containers, support for lashing plan, inland transport, sea transport, licensing etc). His current mission is to identify new business opportunities and provide solutions based on TN International’s mastery of Class 7 transport. He previously worked at AREVA Large Projects (nuclear plant construction) and ArcelorMittal in R&D.
David Knudson, Tantalum-Niobium International Study Center (T.I.C.)

T.I.C. yearly statistics presentation with augmented trade statistics by David Knudson

David Knudson is the T.I.C.’s Technical Officer. He is a chemical engineer who has been in the tantalum industry for over 36 years. David started his career at Cabot Corporation’s Boyertown plant in Pennsylvania, USA, as a research and development technician working on tantalum powder development projects. Subsequently he was promoted to Manufacturing Engineer responsible for flaked powders and dry processing of all powders. In 2003 David joined Niotan Inc. in Nevada, USA, rising to become Vice President of Engineering. After KEMET bought Niotan in 2011 and renamed it KEMET Blue Powder he became Engineering Manager. David has been with the T.I.C. since July 2016.

Maggie Lee, Asian Metal Ltd

The new challenge and opportunity in the Chinese tantalum market by Maggie Lee

Maggie Lee began her career with Asian Metal in 2012, after graduating from Shandong University in northern China, with a degree in Management Science and Engineering. During the following six years at the company, she has focused mainly on researching the minor metal and ferroalloys markets, including tantalum, niobium, rare earths, tungsten, molybdenum, and vanadium. Currently Maggie is leading the team on tantalum and niobium, focusing on contact with all related companies to offer the most accurate news and prices through Asian Metal’s platform.

Li Zhao-Bo, Ningxia Orient Tantalum Industry Co. Ltd (OTIC)

Technology research on preparation of a new type texture on the tantalum blank by Li Zhao-Bo (presented by Jiang Bin)

Li Zhao-Bo works in the tantalum and niobium mill product factory of Ningxia Orient Tantalum Industry Co. Ltd. He graduated from Lan Zhou University of Technology majoring in Material Science and Engineering. As a technologist, he is mainly responsible for research and development on metal preparation technology for products mostly serving markets like semiconductors, superconductors, electronic materials, optical films, chemical anticorrosion technologies and so forth. He authored and owns many Chinese invention patents and has formulated several national industry standards in China.

Ambassador Ambeyi Ligabo, International Conference on the Great Lakes Region (ICGLR)

Qualitative benefits of the implementation of the ICGLR Regional Certification Mechanism (RCM) in Member States by Ambassador Ambeyi Ligabo

Ambassador Ambeyi Ligabo is the Director for the Democracy and Good Governance Program at the ICGLR. The Technical Unit on Natural Resources, responsible for supporting and monitoring the implementation of the ICGLR Regional Initiative on the Fight Against Illegal Exploitation of Natural Resources, is one of the main areas of the Program. Ambassador Ligabo, a Senior Career Diplomat, trained lawyer, has served both the Ministry of Foreign Affairs of Kenya and the United Nations in various senior representational capacities. He was the first Envoy of Kenya to Malaysia and served as the United Nations Special Envoy/Rapporteur on Human Rights (Mandate on Right to Freedom of Opinion and Expression).
Per Loof, KEMET Electronics Corporation
Supply chain stability, corporate social responsibility and the ceramic capacitor (MLCC) shortage: a “perfect storm” for tantalum by Per-Olof Loof

Mr Per-Olof Loof is the Chief Executive Officer of KEMET Corporation. KEMET is a leading global manufacturer of electronic components with 16,000 employees and operations in over 30 countries. The company recently relocated its corporate headquarters to Fort Lauderdale, Florida. Mr Loof is also the past President and CEO of Sensormatic Electronics Corporation, the world’s leader in electronic security. Due to his past successes, in 2012 Mr Loof was honoured by Ernst & Young as an Entrepreneur of the Year in the Carolinas and he was also awarded the South Florida Business Journal’s Broward Ultimate CEO. Mr Loof was elected to the Royal Swedish Academy of Engineering Sciences (IVA) in 2014 and was inducted into Nova Southeastern University’s College of Business & Entrepreneurship Hall of Fame in 2017. Mr Loof has served as Honorary Consul of Sweden for the State of Florida since 2006 and was elected Freeman and Citizen of the City of London in 2001.

Dirk Musser, CRONIMET Mining Processing AG
Responsible artisanal mining support mechanisms by Dirk Musser and Candida Owens

Dirk Musser is the Managing Director and Head of CRONIMET Mining’s Business Unit Processing. After graduating in Economics in the year 2000 from the University of Heidelberg, Germany, Mr Musser began his career by working for the Daimler Group and got promoted to several strategic positions, optimizing production processes and cost structures. After serving globally in various leadership positions within major production processes, Mr Musser joined CRONIMET in 2015. Backed by his knowledge and experience, Mr Musser and his team introduced a wide range of highly efficient and CO2 optimized secondary resource beneficiation centers in Asia, USA, Europe and Africa.

Emily Turner, ITSCI Programme
The ITSCI Programme, a regional programme bringing international standards to the 3T supply chain by Emily Turner and Kay Nimmo

Emily Turner is the Supply Chain Data Manager at the International Tin Association (ITA), focusing on the ITSCI programme. Emily first started working on the ITSCI programme in 2011, including roles covering data quality, data analysis and incident reporting, with several trips to the GLR to provide training and to work closely with field teams. More recently she worked with Sainsbury’s the UK retailer, monitoring customer data and addressing data protection regulations. Emily re-joined the ITA in 2017 to manage all data processes and reporting for ITSCI, including a team of analysts based in St Albans in the UK.

Dennis Zogbi, Paumanok Publications, Inc.
Tantalum capacitors: world markets, technologies and opportunities for vendors of ore, powder and wire: 2018-2023 by Dennis Zogbi

Dennis is the author of more than 300 market research studies about passive electronic components and electronic materials. He has been the lead analyst at Paumanok for the past 30 years. All big data research methodologies currently employed by Paumanok have been designed, developed and implemented by Dennis from the time he founded the company in his college dorm room in 1988 until now. He publishes a monthly market report that monitors 20 sub-categories and maintains a library of advanced market research on the global passive components market. He has been a monthly TTI Columnist for the past 18 years and a Google Scholar with more than 50,000 global citations of his work in passive components. His clients include major global brands and government agencies.
If you are interested in making a presentation at the T.I.C.’s 60th General Assembly in October 2019 please contact info@tanb.org by March 31st 2019.
A&M Minerals and Metals Ltd
Address: Apex Yard, 29-35 Long Lane, London SE1 4PL, United Kingdom
Email: conor@amgroup.uk.com
Website: www.amgroup.uk.com
Activity: Trading

A&R Merchants Inc.
Address: 2101 NW 93rd Avenue, Doral FL 33172, United States
Email: ronald.gilerman@armerchants.com
Website: www.armerchants.com
Activity: Recycling, Trading

Advanced Material Japan Corp.
Address: Sanno park Tower 12F, 2-11-1 Nagata-cho, Chiyoda-ku, Tokyo 100-6112, Japan
Email: dkawamata@amjc.co.jp
Website: www.amjc.co.jp/English
Activity: Trading

Advanced Metallurgical Group NV (AMG)
Address: Building 200, 435 Devon Park Drive, Wayne, PA 19087, United States
Email: fcosta@amgmineracao.com.br
Website: www.amg-nv.com
Activity: Mining, processing

Alfred H. Knight International Ltd
Address: Kings Business Park, Prescot, Knowsley, L34 1PJ, United Kingdom
Email: paul.chew@ahkgroup.com
Website: www.ahkgroup.com
Activity: Assaying

Alliance Mineral Assets Ltd
Address: 6/24 Parkland Road, Osborne Park, WA6017, Australia
Email: pauline.gately@alliancemineralassets.com.au
Website: www.alliancemineralassets.com.au
Activity: Mining

AMR Gold Ltd
Address: 5 Main Motor Road, Congo Cross, Freetown, Sierra Leone
Email: gary.vallerius@amrgold.net
Website: www.amrgold.net
Activity: Mining

Argus Media Ltd
Address: 175 St John Street, London EC1V 4LW, United Kingdom
Email: london@argusmedia.com
Website: www.argusmedia.com/
Activity: Research and consultancy
Metalink, a metal specialist with production facilities based in China, has been focusing on rare metals since its founding in 1993.

**Producer and Exporter** of oxides, master alloys, pure metals, and other special alloys mainly serving super alloy and other high tech industries worldwide.

**Niobium:** Oxide, NiNb, AlNb, Pure Nb Bar or EB metal

**Tantalum:** Oxide, Pure Metal Powder, Bar and Ingot

**Zirconium:** Chemicals, Sponge, VAR Ingots, NiZr

**Hafnium:** NiHf, Pure Hf Metal EB Ingot and Crystal Bar

**Molybdenum:** Oxide, Chemicals, FeMo, Pure Metals, Pure Solid Scraps

**Tungsten:** Pure Metal Bars, Powder, Alloys

**Rhenium:** APR, Re Pellets

**Titanium:** Sponge, VAR Ingots, Pure Solid Scraps

**Vanadium:** Oxide, FeV, NiV, Pure Vanadium Metals

**Buyer of relative raw materials:** Ore, Concentrate Oxide, Recyclables, and other raw materials with refractory metals contained.

**Welcome inquires for any relative metals and special alloys:** Metalink employs many kinds of technologies such as Thermo–Reduction Melting, Sintering, Electron Beam Melting, Induction Melting, Vacuum Induction Melting, lodizing and other relative purifying methods for pure metals and special alloys production.

*Metalink strives to offer valuable solutions for your demand whatever that is raw materials, semi products, pure metals or special alloys.*
AS International Corporation Ltd
Address: Unit 2b, Olympic Way, Sefton Business Park, Aintree, Liverpool L30 1RD, United Kingdom
Email: secretary@alexstewartinternational.com
Website: www.alexstewartinternational.com
Activity: Assaying, Inspection and Sampling Services

ATI Specialty Alloys & Components
Address: P.O. Box 460, Albany, Oregon 97321, United States
Email: benjamin.mckenzie@atimetals.com
Website: www.ATImetals.com
Activity: Nb Secondary Processing

Avon Specialty Metals Ltd
Address: Empire Way, Gloucester, GL2 5HY, United Kingdom
Email: steven.munnoch@avonspecialtymetals.com
Website: www.avonspecialtymetals.com
Activity: Recycling

B.W. Minerals (s) Pte Ltd
Address: 30 Raffles Place, 23/F Chevron House, Singapore 048622, Singapore
Email: bwminerals@bwm.com.sg
Website: www.hhezhong.com
Activity: Trading

Better Sourcing Program Ltd
Address: 9a Burroughs Gardens, London NW4 4AU, United Kingdom
Email: ferdinand@bsp-assurance.com
Website: www.bettersourcing.io
Activity: Due diligence programme

CBMM
Address: Avenida das Nações Unidas, 12.901, 23º andar, Torre Oeste, Brooklin Novo, São Paulo, 04578-910, Brazil
Email: yuri.miranda@cbmm.com.br
Website: www.cbmm.com.br
Activity: Nb Mining, Processing

Chee Ng Minerals Sdn Bhd
Address: 22½ Mile Stone, Ipoh-Kampar Road, 31900 Kampar, Perak, Malaysia
Email: cheengminerals@gmail.com
Website: n/a
Activity: Processing

Chemaf sarl
Address: 144 Avenue Usoke, C/Kampemba, Lubumbashi, Democratic Republic of Congo
Email: shiraz@shalina.com
Website: www.chemaf.com
Activity: Mining
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Email</th>
<th>Website</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNMC Ningxia Orient Group Co., Ltd</td>
<td>119 Yejin Road, Dawukou District, Shizuishan City, Ningxia 753000, China</td>
<td><a href="mailto:jiangb_nniec@otic.com.cn">jiangb_nniec@otic.com.cn</a></td>
<td><a href="http://www.otic.com.cn">www.otic.com.cn</a></td>
<td>Processing</td>
</tr>
<tr>
<td>Cronimet Central Africa AG</td>
<td>Allmendstrasse 11, 6312 Steinhausen, Switzerland</td>
<td><a href="mailto:owens.candida@cronimet.ch">owens.candida@cronimet.ch</a></td>
<td><a href="http://www.cronimet.com">www.cronimet.com</a></td>
<td>Trading, processing</td>
</tr>
<tr>
<td>D Block Metals LLC</td>
<td>1111 Jenkins Road, Gastonia, NC 29052, United States</td>
<td><a href="mailto:craig@dblockmetals.com">craig@dblockmetals.com</a></td>
<td><a href="http://www.dblockmetals.com">www.dblockmetals.com</a></td>
<td>Recycling</td>
</tr>
<tr>
<td>Duoluoshan Sapphire Rare Metal Co. Ltd of Zhaoqing</td>
<td>No. 83, South of Sihui Avenue, Sihui City, Guangdong, 526200, China</td>
<td><a href="mailto:dlsnsy@aliyun.com">dlsnsy@aliyun.com</a> and <a href="mailto:dls_purchase@163.com">dls_purchase@163.com</a></td>
<td><a href="http://www.zqdls.com">www.zqdls.com</a></td>
<td>Processing</td>
</tr>
<tr>
<td>EcoWhite Trading Ltda</td>
<td>Rua Barretos 1191, Vila Elisa, Ribeirão Preto, SP 14075-000, Brazil</td>
<td><a href="mailto:trader1@ecowhite.com.br">trader1@ecowhite.com.br</a></td>
<td><a href="http://www.ecowhite.com.br">www.ecowhite.com.br</a></td>
<td>Mining, processing, recycling</td>
</tr>
<tr>
<td>ELG Utica Alloys Ltd</td>
<td>Unit 1, Adwick Park, Manvers, Rotherham, South Yorkshire S63 5AB, United Kingdom</td>
<td><a href="mailto:craig.wilkes@elguticaalloys.com">craig.wilkes@elguticaalloys.com</a></td>
<td><a href="http://www.elguticaalloys.com">www.elguticaalloys.com</a></td>
<td>Alloys, Processing, Recycling</td>
</tr>
<tr>
<td>Ethiopian Mineral, Petroleum and Biofuel Corporation</td>
<td>P.O. Box 2543, Addis Ababa, Ethiopia</td>
<td><a href="mailto:Empbf.corporation@gmail.com">Empbf.corporation@gmail.com</a></td>
<td><a href="http://www.empbfcorporation.com">www.empbfcorporation.com</a></td>
<td>Ta Mining</td>
</tr>
<tr>
<td>Exotech, Inc.</td>
<td>1851 Blount Road, Pompano Beach, FL 33069, United States</td>
<td><a href="mailto:extech@exotech.com">extech@exotech.com</a></td>
<td><a href="http://www.exotech.com">www.exotech.com</a></td>
<td>Recycling</td>
</tr>
<tr>
<td>F&amp;X Electro-Materials Ltd</td>
<td>Yaxi Industrial Development Zone, Xinhui City, Guangdong, China</td>
<td><a href="mailto:xyz@uil.com.hk">xyz@uil.com.hk</a></td>
<td><a href="http://www.fxelectro.com">www.fxelectro.com</a></td>
<td>Processing</td>
</tr>
</tbody>
</table>
FIR Metals & Resource Ltd
Address: Jiulong Industrial Zone, Yanling, Zhuzhou, Hunan 412500, China
Email: tang396919@hotmail.com
Website: en.chinatanb.com
Activity: Processing

Global Advanced Metals
Address: 100 Worcester Street, Wellesley Hills, MA 02482, United States
Email: info@globaladvancedmetals.com
Website: www.globaladvancedmetals.com
Activity: Mining, Processing

Guangdong Rising Rare Metals-EO Materials Ltd
Address: Shen'gang, Taiping Town, Conghua District, Guangzhou, 510980, China
Email: ctns723@163.com
Website: www.ctns723.com
Activity: Processing

Guangdong Zhiyuan New Material Co. Ltd
Address: Qiaotou Town, Yingde City, Guangdong Province, 513055, China
Email: betty@zhiyuanm.com
Website: www.zhiyuanm.com
Activity: Processing

H.C. Starck Tantalum & Niobium GmbH
Address: Im Schleeke 78-91, 38642 Goslar, Germany
Email: silvana.fehling@hcstarck.com
Website: www.hcstarck.com
Activity: Processing

Heraeus Deutschland GmbH & Co. KG
Address: Postfach 1553, 63405 Hanau, Germany
Email: bernd.spaniol@heraeus.com
Website: www.heraeus.com
Activity: Secondary Processing

ICD Alloys & Metals
Address: 3946 Westpoint Blvd., Winston Salem, NC 27103, United States
Email: steve@icdalloys.com
Website: www.icdalloys.com
Activity: Processing, Mining, Recycling

Imerys Ceramics France
Address: 154 Rue de l'Université, 75007 Paris, France
Email: pierre.sierak@imerys.com
Website: www.imerys-ceramics.com
Activity: Niobium mining, tantalum mining
Your Global Network of Inspection & Analytical Laboratory Services

For more than 30 years, Alex Stewart International Corporation (ASIC) has provided inspection and analytical services for base, minor and precious metals, including jewellery, ores and concentrates, ferro alloys, recycled scrap metal and also agricultural commodities.

Today, the network of regional Alex Stewart companies spans over 40 countries and delivers fast, flexible and comprehensive inspection, analytical and laboratory services to the metals and minerals industry, with coverage at all major ports and refineries. By maintaining a dedicated, friendly and trustworthy business relationship with clients, ASIC provides unparalleled technical support.

Our mission is to provide professional inspection and analytical services that conform to internationally accepted standards—and, by meeting all contractual specifications, to protect clients from unnecessary financial claims. Our inspectors are conversant with all accepted sampling and weighing procedures.

A Name to Trust in Business

Inspection and analytical services combining a unique competence—ASIC employs qualified, experienced chemists and inspectors to deliver precise and prompt quantity and quality reports and certificates. Our professional and knowledgeable team provides a dedicated, high-quality service that meets the specified requirements and demands of the metal industry, mining companies, traders, the agriculture sector, governments, banks and financial institutions and the general public.

Alex Stewart International Corporation bases its activities on the principles of responsibility, impartiality, professionalism and confidentiality.

ASIC Operations
Argentina
Australia
Belgium
Bolivia
Bulgaria
Brazil
Bulgaria
China
Chile
Ecuador
Egypt
Estonia
Ethiopia
Finland
Germany
India
Indonesia
Iran
Japan
Kazakhstan
Korea
Latvia
Malaysia
Norway
Peru
Philippines
Portugal
Romania
Russia
Rwanda
Singapore
Spain
Taiwan
Thailand
Turkey
United Kingdom
Ukraine
United Arab Emirates
United States
Zambia

Main Activities
- Inspection services
- Laboratory and Analytical Services
- Weighing, sampling and sample preparation
- Quantity & Quality reports
- Certification
- Technical consultancy services
- Training

Inspection Services
- Pre-shipment inspection
- Proof on arrival inspection
- Vessel condition surveys
- Supervision of bulk cargoes —load/discharge
- Weighing, sampling and sample preparation
- Stockpile sampling
- CMA, goods release and warehouse control
- Radioactivity testing

Laboratory Services
- Commercial analysis
- Production analysis
- Geochemical analysis
- Sample preparation
- Traditional wet chemistry
- Fire assay/AA
- ICP-MS/OES
- XRF

Alex Stewart (International) Corporation
Selton Business Park,
Netherton, Liverpool
Merseyside L30 1RD
United Kingdom
T: +44 (0) 151 525 1499
F: +44 (0) 151 523 3760
E: stephen.russell@alexstewartinternational.com
www.alexstewartinternational.com
International Conference on the Great Lakes Region (ICGLR)
Address: Boulevard du Japon 38, B.P. 7076, Bujumbura, Burundi
Email: secretariat@icglr.org
Website: http://icglr-rinr.org/index.php/en/
Activity: Associate Member - Trade association

Jiujiang Jinxin Non-ferrous Metals Co. Ltd
Address: No.3 Industrial Zone, Xunyang District, Jiujiang City, Jiangxi Province, China
Email: janny@jiujiangjx.com; nancy@jiujiangjx.com
Website: www.jiujiangjx.com
Activity: Processing

Jiujiang Tanbre Co., Ltd
Address: P.O. Box 19, Jiujiang City, Jiangxi Province 332014, China
Email: import@jjtanbre.com.cn
Website: www.jjtanbre.com.cn/english
Activity: Processing

Jiujiang Zhongao Tantalum & Niobium Co. Ltd
Address: 801 East Binjiang Road, Jiujiang City, Jiangxi Province, China
Email: chejiahe2011@vip.163.com
Website: www.zatanb.com
Activity: Processing

KEMET Electronics Corp.
Address: KEMET Tower, 1 East Broward Blvd., 2nd Floor, Fort Lauderdale, FL 33301, United States
Email: questions@kemet.com
Website: www.kemet.com
Activity: Capacitor Manufacture, Processing

King-Tan Tantalum Industry Ltd
Address: Shishi, Yifeng, Jiangxi 336307, China
Email: tanb@king-tan.com
Website: www.king-tan.com
Activity: Processing

Krome Commodities Ltd
Address: 23 Ashburton Avenue, Ilford, Essex IG3 9ET, United Kingdom
Email: psmony48@gmail.com
Website: www.krome Commodities.com
Activity: Trading

Kuala Ketil Metal Sdn Bhd
Address: 168 Lorong Bunga Raya 3/1A, Taman Cemara, Sungai Petani, 0800 Kedah, Malaysia
Email: buanseng@gmail.com
Website: n/a
Activity: Trading
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Email</th>
<th>Website</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Malaysia Smelting Corporation</strong></td>
<td>27 Jalan Pantai, 12000 Butterworth, Malaysia</td>
<td><a href="mailto:msc@msmelt.com">msc@msmelt.com</a></td>
<td><a href="http://www.msmelt.com">www.msmelt.com</a></td>
<td>Tin smelting</td>
</tr>
<tr>
<td><strong>MERSEN Deutschland Linsengericht GmbH</strong></td>
<td>Lagerhausstrasse 7-9, 63589 Linsengericht, Germany</td>
<td><a href="mailto:stephane.trefalt@mersen.com">stephane.trefalt@mersen.com</a></td>
<td><a href="http://www.mersen.com">www.mersen.com</a></td>
<td>Design and manufacture of Ta components and equipment</td>
</tr>
<tr>
<td><strong>Metal Do Co. Ltd</strong></td>
<td>ONTEX Namba Bld. 11F, 2-2-45, Minatomachi, Naniwa-ku, Osaka 556-0017, Japan</td>
<td><a href="mailto:metaldo@raremetal.co.jp">metaldo@raremetal.co.jp</a></td>
<td><a href="http://www.raremetal.co.jp/en">www.raremetal.co.jp/en</a></td>
<td>Trading</td>
</tr>
<tr>
<td><strong>Metalink International Co. Ltd</strong></td>
<td>Metalink Building, 8 East Jinxin Road, Jiangjin Avenue, Jiangning Economic Development Area, Nanjing, 211153, China</td>
<td><a href="mailto:metalink@metalink.com.cn">metalink@metalink.com.cn</a></td>
<td><a href="http://www.metalink.com.cn/en">www.metalink.com.cn/en</a></td>
<td>Recycling, Trading</td>
</tr>
<tr>
<td><strong>Metallurgical Products India Pvt. Ltd</strong></td>
<td>T-27, MIDC Industrial Area – Taloja, District Raigad, Maharashtra 410208, India</td>
<td><a href="mailto:vkumar@mpil.co.in">vkumar@mpil.co.in</a></td>
<td><a href="http://www.mpil.co.in">www.mpil.co.in</a></td>
<td>Processing</td>
</tr>
<tr>
<td><strong>Metalysis Ltd</strong></td>
<td>Materials Discovery centre, Unit 4 R-Evolution@TheAMP, Brindley Way, Catcliffe, Rotherham S60 5FS, United Kingdom</td>
<td><a href="mailto:ian.margerison@metalysis.com">ian.margerison@metalysis.com</a></td>
<td><a href="http://www.metalysis.com">www.metalysis.com</a></td>
<td>Ta Secondary Processing, Powders</td>
</tr>
<tr>
<td><strong>Metherma KG</strong></td>
<td>Arnheimerstrasse 109, 40489 Düsseldorf, Germany</td>
<td><a href="mailto:molybdenum@metherma.de">molybdenum@metherma.de</a></td>
<td><a href="http://www.metherma.de">www.metherma.de</a></td>
<td>Trading, Recycling</td>
</tr>
<tr>
<td><strong>Mineração Taboca SA</strong></td>
<td>Vila Pitinga s/n, Zona Rural, Presidente Figueiredo, AM 69735-000, Brazil</td>
<td><a href="mailto:ronaldo.lasmar@mtaboca.com.br">ronaldo.lasmar@mtaboca.com.br</a></td>
<td><a href="http://www.mtaboca.com.br">www.mtaboca.com.br</a></td>
<td>Mining, Processing</td>
</tr>
</tbody>
</table>
Minerals Resources International AG
Address: Zugerstrasse 74, 6340 Baar, ZG, Switzerland
Email: sales@mrinternational.ch
Website: www.mrinternational.ch/
Activity: Mining

Mines, Minerals, Metals & Markets Ltd
Address: 229 Dartmouth Road, Paignton, Devon, TQ4 6LG, United Kingdom
Email: w.millman@minesmineralsmetalsmarkets.com
Website: n/a
Activity: Responsible sourcing consultancy

Mining Mineral Resources Sarl
Address: 7721 Avenue Kisambi, Quartier Lido-Golf, Lubumbashi, Haut-Katanga, Democratic Republic of Congo
Email: geoffrey@somika.com
Website: n/a
Activity: Mining

Minor Metals Trade Association (MMTA)
Address: 1st Floor, 33 Queen Street, London, EC4R 1BR, United Kingdom
Email: maria@mmta.co.uk
Website: www.mmta.co.uk
Activity: Associate Member - Trade association

Mitsubishi Corporation RtM Japan Ltd
Address: Rare Metals Department, 7-2, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-7027, Japan
Email: hajime.morimoto@rtm.mitsubishicorp.com
Website: www.mitsubishicorpor.com
Activity: Trading

Mitsui Mining & Smelting Co. Ltd
Address: Gate City Ohsaki West Tower, 19th floor, 1-11-1 Osaki, Shinagawa-ku, Tokyo, 141-8584, Japan
Email: d_nakayama@mitsui-kinzoku.co.jp
Website: www.mitsui-kinzoku.co.jp/en
Activity: Processing, Smelting

MTU Aero Engines AG
Address: Dachauer Strasse 665, 80995 München, Germany
Email: stefanie.winter@mtu.de
Website: www.mtu.de/en
Activity: Aerospace industry, Aerospace alloys, User

NAC Kazatomprom
Address: D. Kunayev st. 10, 010000 Astana, Republic of Kazakhstan
Email: a.toktarov@kazatomprom.kz
Website: www.kazatomprom.kz/en
Activity: Processing
NINGXIA ORIENT TANTALUM INDUSTRY CO., LTD. (OTIC)

- CLEAN TANTALUM SUPPLY CHAIN • RESPONSIBLE GLOBAL SUPPLIER
- Founded in 1965 (former Ningxia Nonferrous Metals Smeltery)
- 1780 employees
- The biggest Ta & Nb manufacturer in China
- Certified to CFSI annual audit successively since 2011
- Sourcing all non–conflict tantalum minerals in compliance with EICC requirements
- The first listed Ta & Nb processing company in China in January 2000
- The earliest TIC member in China and an Asian member of the TIC Executive Committee
- Executive member of Ta & Nb Branch of the China Nonferrous Metal Industry Association
- The Chinese National Ta & Nb Special Metal Material Engineering Technology Research Center
- Standardization leader of the tantalum and niobium industry in China

Key Product Show

OTIC specializes in producing Ta and Nb key materials for high-tech industry: powders, compounds and customer-specific fabricated parts of tantalum, niobium and their alloys such as wires, ingots, plates, foils, bars, rods, RF superconducting cavity, sputtering target blank, furnace parts and so on for various applications.

Add: No119, Yejin Road, Dawukou District, Shizuishan, Ningxia 753000, China
Export Tel: (86)-952-2098877 or 2098873
Import Tel: (86)-952-2098622 or 2098623
Website: http://www.otic.com.cn
Fax: (86)-952-2012018
E-Mail: master@otic.com.cn
Neometals Ltd
Address: Level 3, 1292 Hay St, West Perth WA 6005, Australia
Email: mtamlin@neometals.com.au
Website: www.neometals.com.au
Activity: Mining

New Material Corporation
Address: 3F, No 3 Yoshida Bldg, 3-13-4, Akasaka, Minato-ku, Tokyo 107-0052, Japan
Email: k.higa@newmaterial.jp
Website: www.newmaterial.jp
Activity: Trading

Niobras Mineração Ltda
Address: RODOVIA GO 503, KM 11,5 - S/N, Fazenda Chapadão (Zona Rural), Ouvidor / GO, CEP 75715-000, Brazil
Email: dellioit@cmocinternational.com
Website: www.cmocbrasil.com
Activity: Nb Mining, Processing

NPM Silmet OÜ
Address: Keskstr 2, 40231 Sillamäe, Estonia
Email: t.vau@neomaterials.com
Website: www.neomaterials.com
Activity: Processing

Pilbara Minerals Limited
Address: Level 2, 88 Colin Street, West Perth, Australia
Email: agray@pilbaraminerals.com.au
Website: www.pilbaraminerals.com.au
Activity: Mining

Plansee SE
Address: Metallwerk-Plansee-Str. 71, 6600 Reutte, Austria
Email: eduard.kotz@plansee.com
Website: www.plansee.com
Activity: Secondary Processing

Refractory Metals Mining Co. Ltd
Address: 1008A Shing Chuen Industrial Building, 25 Shing Wan Road, Tai Wai, Shatin, Hong Kong, China
Email: info@rmmc.com.hk
Website: n/a
Activity: Mining, Trading

Resind Indústria e Comércio Ltda
Address: Rodovia 265 Km 264, Distrito Industrial, Caixa Postal 157, São João del Rei, MG 36315-000, Brazil
Email: almirclemente@resind.com.br
Website: www.resind.com.br
Activity: Secondary Processing
Global Standards
Supporting Responsible Business Supply Chains

Business Advantage
- Tools to meet customer requirements
- Enhance risk management practices
- Demonstrate leadership in responsible sourcing

Upgrading our system
- Revised Audit Standards aligned with the OECD Guidance, applying a management-system approach and covering a global geographic scope and additional human rights risk areas
- Online Risk Readiness Assessment tool that covers 31 risk areas and 15 metals/minerals for producers and processors to assess and communicate their risk management practice and performance
- Publicly available grievance mechanism
- Free technical assistance and financial support for preparation and assessment costs

Alignment with Other Systems
- Alignment with the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas
- Alignment with partner programs to ensure responsible in-region sourcing
- Cross-recognition agreements with other assessment programs

Responsible Minerals Initiative:
Promoting Responsible Business Practices
The Responsible Minerals Initiative (RMI, formerly CFSI) provides companies with tools and resources to make sourcing decisions that improve regulatory compliance and support responsible sourcing of gold, tin, tantalum, tungsten and cobalt. We promote responsible sourcing of minerals from anywhere, not just from CAHRAs. With over 360 member companies, we work towards a future in which businesses contribute positively to the fostering of peace and stability in Conflict-Affected and High Risk Areas globally.

Third-Party Smelter Audits
Responsible Minerals Assurance Process (RMAP) uses an independent third-party assessment of smelter/refiner management systems and sourcing practices to validate compliance with RMAP standards, the OECD Due Diligence Guidance and national regulation, such as EU Conflict Minerals requirements and the U.S. Dodd Frank Act, Sec. 1502. The audit employs a risk-based approach to assess smelters’ company level management processes for responsible mineral procurement.

Participation in the RMAP can help smelters and refiners:
- Improve management systems
- Demonstrate progressive improvement over time
- Exhibit leadership in responsible sourcing and due diligence
- Meet customer expectations
- Meet US and EU regulatory requirements

Resources for Smelters
- Free Technical Assistance
- Initial Audit Fund
- Free eLearning Academy
- Support for Upstream Due Diligence in New CAHRAs

Contact Us
1737 King Street, Suite 330
Alexandria, VA 22314 USA
Tel: +1.571.858.5727
RMI@ResponsibleBusiness.org
www.responsiblemineralsinitiative.org
<table>
<thead>
<tr>
<th>Organization</th>
<th>Address</th>
<th>Email</th>
<th>Website</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Responsible Minerals Initiative (RMI)</td>
<td>1737 King St, Suite 330, Alexandria, VA 22314, United States</td>
<td><a href="mailto:lbutler@ResponsibleBusiness.org">lbutler@ResponsibleBusiness.org</a></td>
<td><a href="http://www.responsiblemineralsinitiative.org">www.responsiblemineralsinitiative.org</a></td>
<td>Associate Member - Trade association</td>
</tr>
<tr>
<td>Roskill Information Services Ltd</td>
<td>54 Russell Road, London SW19 1QL, United Kingdom</td>
<td><a href="mailto:patrick@roskill.com">patrick@roskill.com</a></td>
<td><a href="http://www.roskill.com">www.roskill.com</a></td>
<td>Research and consultancy</td>
</tr>
<tr>
<td>Rwanda Mining Association (RMA)</td>
<td>P.O. Box 1856, Kigali, Rwanda</td>
<td><a href="mailto:jeanmalic@yahoo.fr">jeanmalic@yahoo.fr</a></td>
<td><a href="http://www.rma.co.rw/m/">www.rma.co.rw/m/</a></td>
<td>Associate Member - Trade association</td>
</tr>
<tr>
<td>Shalina Resources Ltd</td>
<td>30th Floor, Almas Tower, Jumeirah Lake Towers, P.O. Box 340575, Dubai, United Arab Emirates</td>
<td><a href="mailto:uday.shetty@shalina.com">uday.shetty@shalina.com</a></td>
<td><a href="http://www.shalinaresources.com">www.shalinaresources.com</a></td>
<td>Mining</td>
</tr>
<tr>
<td>Société Minière de Bisunzu (SMB)</td>
<td>266 Avenue du Lac, Katindo Gauche, Goma, North Kivu, Democratic Republic of Congo</td>
<td><a href="mailto:info@smb-sarl.com">info@smb-sarl.com</a></td>
<td><a href="http://www.smb-sarl.com">www.smb-sarl.com</a></td>
<td>Mining</td>
</tr>
<tr>
<td>Solikamsk Magnesium Works</td>
<td>St Pravda 9, 618541 Solikamsk, Permskiy Krai, Russia</td>
<td><a href="mailto:sales@smw.ru">sales@smw.ru</a></td>
<td><a href="http://www.smw.ru">www.smw.ru</a>; <a href="http://www.smw.ru">www.smw.ru</a>; <a href="http://www.%D1%81%D0%BC%D0%B7.%D1%80%D1%84">www.смз.рф</a></td>
<td>Processing</td>
</tr>
<tr>
<td>Specialty Metals Resources SA</td>
<td>Rue Tenbosch 42A, 1050 Brussels, Belgium</td>
<td><a href="mailto:philippe.lavagna@smr.hk">philippe.lavagna@smr.hk</a>; <a href="mailto:quentin.lamarche@smr.hk">quentin.lamarche@smr.hk</a></td>
<td><a href="http://www.smr.hk">www.smr.hk</a></td>
<td>Trading</td>
</tr>
<tr>
<td>Standard Die International</td>
<td>12980 Wayne Rd., Livonia, MI 48150, United States</td>
<td><a href="mailto:jkrol@standarddie.com">jkrol@standarddie.com</a></td>
<td><a href="http://www.standarddie.com">www.standarddie.com</a></td>
<td>Design and manufacture of Ta components and equipment</td>
</tr>
</tbody>
</table>

© Tantalum-Niobium International Study Center (T.I.C.) 2018
Stapleford Trading Limited
Address: Wayside, Stapleford Road, Stapleford Abbots, Romford, Essex RM14 1EJ, United Kingdom
Email: jim@staplefordtrading.co.uk
Website: www.staplefordtrading.co.uk
Activity: Trading

Strategic Minerals Spain SL
Address: Ctra. OU-0901 Km 14, 32558 Penouta (Viana do Bolo), Orense, Spain
Email: contact@strategicminerals.com
Website: www.strategicminerals.com
Activity: Mining

Taike Technology (Suzhou) Co. Ltd
Address: No. 20 Chengyang Road, Suzhou Xiangcheng Economic Development Area, Suzhou, Jiangsu 215131, China
Email: annali@taike-sz.com
Website: www.taike-sz.com/index-eng/product.asp?classid=125
Activity: Ta processing

Tantalex Resources
Address: 333 Bay Street, Suite 630, Toronto, ON, M5H 2R2, Canada
Email: sb@tantalex.ca
Website: www.tantalex.ca
Activity: Mining

Tantec GmbH
Address: Tantalstraße 1-3, 63571 Gelnhausen, Germany
Email: g.raab@tantec-group.com
Website: www.tantec-online.de
Activity: Design and manufacture of tantalum components and equipment

Telex Metals LLC
Address: 105 Phyllis Drive, Croydon, PA 19021, United States
Email: info@telexmetals.com
Website: www.telexmetals.com
Activity: Recycling, Processing

Thailand Smelting & Refining Co. Ltd
Address: 80 Moo 8 Sakdidej Road, Tambon Vichit, Amphur Muang, Phuket 83000, Thailand
Email: sales@thaisarco.com; procurement@thaisarco.com
Website: www.thaisarco.com
Activity: Tin smelting

ThreeArc Mining LLC
Address: Narodnogo Opolchenia 2A, St.Petersburg, Russia
Email: oanikin@zaoict.ru
Website: www.threearc.ru
Activity: Nb Mining
Traxys
Address: Route d’Arlon 19-21, 8009 Strassen, Luxembourg
Email: frederic.delforge@traxys.com
Website: www.traxys.com
Activity: Trading

Treibacher Industrie AG
Address: Division Hard Metals and Energy Storage, Auer von Welsbachstr. 1, 9330 Treibach-Althofen, Austria
Email: ulf.stromberger@treibacher.com
Website: www.treibacher.com
Activity: Hard materials like carbides and carbonitrides for the hard metal industry

TVEL Corporation
Address: 49 Kashirskoe shosse, Moscow, 115409, Russia
Email: root@tvel.ru
Website: www.tvel.ru
Activity: Secondary Processing

Vishay
Address: P.O. Box 87, Dimona 86100, Israel
Email: Efi.BenBaruch@vishay.com
Website: www.vishay.com
Activity: Capacitor Manufacture

Yanling Jincheng Tantalum & Niobium Co. Ltd
Address: SME Pioneer Park, Yanling, Zhuzhou, Hunan 412500, China
Email: ireneguan@jinchengtn.com
Website: www.jinchengtn.com
Activity: Processing, Recycling

Yano Metals Co. Ltd
Address: Tokyo office: 1-19-11, Dogenzaka, Shibuya-ku, Tokyo, 150-0043, Japan
Email: m_abe@yanokinzoku.co.jp
Website: www.yanokinzoku.co.jp/en/index.html
Activity: Recycling, Trading

Zhuzhou Cemented Carbide Works Import and Export Co. Ltd
Address: Diamond Road, Zhuzhou, Hunan, 412000, China
Email: zccc@chinacarbide.com
Website: www.chinacarbide.com
Activity: Carbides
Specialists in the sourcing, processing, preparation, and supply of primary and secondary metals and alloys for the Vacuum and Air melting industries

Buying and Supplying the following:
Cobalt, Nickel, Tungsten, Tantalum, Niobium, Molybdenum, Chromium,
Vanadium, Hafnium, Zirconium, Titanium, HSS, Wolframite Ore, Tantalite Ore

Primary Markets Served:
- Aerospace
- Oil and Gas
- Medical
- Industrial Gas Turbine
- Foundries
- Steel Mills
- Nuclear
- Powder Metallurgy
- Tooling
- Mining
- Petrochemical
- Toll Processing

ICD ALLOYS AND METALS, LLC
A Division of the ICD Group, International
3946 Westpoint Boulevard
Winston Salem, NC 27103
Tel: +1-336-793-2222
Email: icd@icdalloys.com

ICD EUROPE, LTD
A Division of ICD Alloys and Metals, LLC
Units 7-11, Vantage Park, Coborn Avenue,
Sheffield, S9 1DA, UK
Tel: +44(0)1709 918 120
Email: admin@icdalloys.com
Applying for T.I.C. Membership

Who can apply?
Any organisation involved in the tantalum and niobium industries may apply for membership. The T.I.C. is composed of companies from the entire niobium and tantalum supply chains, from explorers to miners, traders and processors, through to end users and suppliers of goods and services to the industry.

How much are the annual membership fees?
Annual membership fees for the year 2018 are EUR 2400 for corporate members and EUR 350 for associate members, representing sound value for money.

Corporate Membership or Associate Membership?
Corporate members are commercially involved in the tantalum and/or niobium industries. They are voting members and make up the majority of the membership.

Associate membership is reserved for non-commercial organisations such as governments, civil society groups and academia. The Executive Committee has the final decision concerning which category is applicable to applicant organisations.

How to apply?
Applications for membership are considered at the annual general meeting held each October and should be submitted at least one month beforehand.

To apply, an organisation needs to:
• Complete the application form available at https://www.tanb.org/view/join-today or from info@tanb.org.
• Provide a brief description of its activities in tantalum and/or niobium.
• Confirm that it has read and understood the T.I.C.’s current policies*.
• Corporate applicants need the support of two existing corporate members.
• The Executive Committee considers all applications and those that are accepted as valid are invoiced for three months’ membership fee. Full payment is required at least one week before the General Assembly.
• All valid applications for membership are discussed and voted on by the existing members at the annual general meeting via an anonymous vote by ballot paper. Applicants may not be present at the meeting during membership discussions and voting.
• Successful applicants are considered to be a member of the T.I.C. for the year during which they were accepted. Regardless of the voting outcome, applicants are free to attend the technical conference that follows the members’ general meeting.

If you are interested in joining the T.I.C. please contact emma.wickens@tanb.org.

* In September 2018, these are the Artisanal and Small-scale Mining Code of Conduct, Transport Policy and Antitrust Compliance Policy. All three are available at www.TaNb.org
Benefits of T.I.C. Membership

The T.I.C. undertakes a wide range of activities in support of its members’ interests. The benefits of corporate membership include*:

Information services for members
- Monthly updates giving news and information about our industries.
- Quarterly niobium and tantalum statistics.
- The Bulletin, our printed newsletter packed with technical papers and news.
- Digital archives of tantalum and niobium technical papers, patents and statistical reports on the members’ area of www.TaNb.org.

Technical services
- Priority advice and support from the T.I.C. Technical Officer.
- Guidance on pertinent subjects, such as artisanal and small-scale mining, antitrust and transport.
- Liaising with governments and other stakeholder organisations on subjects relevant to our industry including:
  - Supply chain due diligence and conflict-mineral legislation.
  - Transport of naturally occurring radioactive materials (NORM).
  - Critical raw materials.

The General Assembly, our annual technical conference
- Priority booking and exclusive early-bird discounts to attend the world’s leading tantalum and niobium conference.
- Exclusive networking opportunities at the annual members’ meeting held each October.

Benefit from T.I.C.’s promotion of niobium and tantalum
- Exhibiting and presenting at relevant conferences.
- Commissioning research and reports about the global tantalum and niobium industries and fighting stubborn myths concerning these elements.
- T.I.C. is home to the Anders Gustaf Ekeberg Tantalum Prize.

Members decide the T.I.C. policies and strategy
- All members can take part in the T.I.C.’s governance at the AGM.
- Corporate members can nominate representatives to stand for election to the Executive Committee and/or volunteer to serve on a subteam.
- Free listing in the Annual Review and on our comprehensive website.

Apply today and join the world’s largest community focused on tantalum and niobium!

* For further information, including benefits of associate membership, please contact the T.I.C. For details of how to apply for membership please see page 41.
Jiujiang Zhongao Tantalum&Niobium Co., LTD was a joint venture established in 2011, which has $1.46 million registered capital and nearly $24 million total investment. There are more than 100 employees including skilled workers, professional engineers and senior executives. The majority shareholder of the company, Jiujiang Yizhong Non-ferrous Metal Co., Ltd, which was founded in 1992, has already operated for approximately 30 years and passed ISO9001 certification. The company mainly manufactures metallurgical grade of Ta&Nb oxide, electron-grade Nb oxide, Optical glass grade of high-purity Ta&Nb oxide and high purity of Ta&Nb ingots.

We focus on quality and diligent service as core values; advance the worldwide influence and impression of China’s Ta&Nb industry hopefully by our profession and sustainable hard work. In the past 30 years, Jiujiang Zhongao Tantalum&Niobium Co., Ltd was always in accordance with customers’ needs and followed the fundamental of non–conflict mineral resource. While concentrating on expanding local market, it provided more than a hundred varied enterprises with optical products as well as intimate service. Its stable product quality and reputation has obtained lavish praise and credits from them, which helps the company create its good brand gradually in China.

Not only does our company pay attention to national market but also spare no efforts on exploring foreign market that acquire some great achievements and international popularity. In 2012, we joined the TIC organization (Tantalum–Niobium International Study Center) and became the indicated unit issued by EICC (Electronic Industry Code of Conduct) two years later. It set a cornerstone for enterprise to fulfill the goal of internationalization.

We strongly believe that the company would be able to reach mutual benefits with international enterprises by our adequate efforts and pursuit all the time.
The Only Conflict-Free Vertical Supply Chain for Tantalum

New KEMET Headquarters: 1 E Broward Blvd. Ft Lauderdale, FL. 33301