TANTALUM-NIOBIUM
INTERNATIONAL STUDY CENTER

www.TaNb.org

2017
ANNUAL REVIEW

Presented at the Fifty-eighth General Assembly of the Tantalum-Niobium International Study Center (T.I.C.)

Vancouver, Canada, 15th-18th October 2017
The Only Conflict-Free Vertical Supply Chain for Tantalum
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**Tantalum-Niobium International Study Center (T.I.C.)**

Address: Chaussée de Louvain 490, 1380 Lasne, Belgium

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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  
www.jonesday.com/brussels/

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

Auditor: **JCB RE**  
Avenue des Héros 41, 1160 Brussels, Belgium

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- Sputtering Target
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- Medical

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Dear Fellow Members and Friends,

It is with great pleasure that I welcome you to the second Tantalum-Niobium International Study Center Annual Review released under the direction of Roland Chavasse. I also heartily welcome you to Vancouver, British Columbia for our 58th General Assembly and 7th Technical Symposium.

Hopefully, over the last couple of years, you’ll have seen significant changes to our organization and how it’s managed. However, we are constantly seeking to improve and can only do so with your help, particularly your ongoing involvement. This can range from simple suggestions, criticisms, and recommendations to being willing to serve on our various subteams and the Executive Committee.

This 2017 Annual Review highlights some of the initiatives we have underway since our meeting last October in Toulouse, France. Our organization has a rich history in trying to serve the needs of our members specifically and the tantalum and niobium industries in general.

In this booklet, you will find details of our current corporate and associate members, with more to hopefully be elected in Vancouver, Canada. 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 sponsored this Annual Review through their advertisements and sponsors KEMET Electronics Corp., Exotech, Inc., A&R Merchants Inc., and Krome Commodities Ltd. I would also like to recognize and appreciate the many contributions of our members, 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 hopes to become in the future.

Sincerely yours,

David Henderson
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...).
- 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 14).
- 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.
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 57th General Assembly, and consists of (in alphabetical order of member’s surname):

- **Conor Broughton**  
  conor@amgroup.uk.com

- **John Crawley**  
  jcrawley@rmmc.com.hk

- **David Gussack**  
  david@exotech.com

- **David Henderson (President)**  
  dhenderson@rittenhouseir.com

- **Marc Hüppeler**  
  marc.hueppeler@hcstarck.com

- **Kokoro Katayama**  
  kokoro@raremetal.co.jp

- **Raveentiran Krishnan**  
  raveentiran@msmelt.com

- **Jiang Bin**  
  jiangb_nniec@otic.com.cn

- **David O’Brock**  
  david.obrock@gmail.com

- **Candida Owens**  
  owens.candida@cronimet.ch

- **Daniel Persico**  
  danielpersico-rc@tokin.com

- **Alexey Tsorayev**  
  tsorayevaa@ulba.kz

The Executive Committee meeting in Dublin, Ireland, April 2017.
The 2017 election to the Executive Committee takes place on October 16th during the Association’s annual general meeting (AGM) at the 58th General Assembly in Vancouver, Canada. 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 2017, the following subteams were operational:

Marketing:  
Daniel Persico (chair)  
Fabiano Costa  
David Knudson  
Raveentiran Krishnan  
Candida Owens  
Larry Stryker  
Emma Wickens

Supply Chain:  
John Crawley (chair)  
Conor Broughton  
David Henderson  
Marc Hüppeler  
Raveentiran Krishnan  
Jean-Paul Meutcheho  
William Millman  
Candida Owens

Meetings:  
David Gussack (chair)  
Conor Broughton  
Ronald Gilerman  
David O'Brock  
Emma Wickens

Statistics:  
Alexey Tsorayev (chair)  
David Knudson  
Ronaldo Lasmar  
Kseniya Solomina  
Patrick Stratton

We are always looking for enthusiastic T.I.C. members to join our range of subteams. If you are interested, please contact Emma Wickens.

Officers of the T.I.C.
Since the 57th General Assembly there have been new staff email addresses:

**Director**    Roland Chavasse    roland.chavasse@tanb.org
**Secretary General**    Emma Wickens    emma.wickens@tanb.org
**Technical Officer**    David Knudson    david.knudson@tanb.org
Since the 57th General Assembly in Toulouse, France, in October 2016, the T.I.C. has continued to invest in resources that will allow the Association to both broaden and deepen the range of services it offers. This has been helped by the new Charter of Association and Antitrust Policy which were adopted by members in Toulouse and which give the T.I.C. strong foundations for growth.

Any association is only ever as strong as its members and in Toulouse we welcomed nine new corporate members:

- **Alliance Mineral Assets Ltd**, owner and operator of the Bald Hill lithium-tantalum mine in Australia
- **AMR Gold**, a tantalite mining company based in Sierra Leone
- **Argus Media Ltd** (consulting division), a metal market consultant whose range includes tantalum and niobium
- **Mersen Deutschland Linsengericht GmbH**, a German manufacturer of large-scale industrial equipment that uses tantalum and niobium
- **Mines, Minerals, Metals & Markets Ltd**, a responsible sourcing consultancy based in the UK
- **Neometals Ltd**, owner and operator of the Mt Marion lithium-tantalum mine in Australia
- **Société Minière de Bisunzu (SMB)**, a mining company with large tantalum holdings in North Kivu, DRC
- **Strategic Minerals Spain S.L.**, a Spanish mining company developing the Penouta Mine in Spain
- **Yanling Jincheng Tantalum & Niobium Co., Ltd**, a Chinese refinery focusing on producing tantalum and niobium ingot, mainly from scrap

We also welcomed three associate members:

- **Conflict-Free Sourcing Initiative (CFSI)**, an organisation helping companies make informed choices about conflict-free sourcing
- **Minor Metals Trade Association (MMTA)**, an international trade body focusing on minor metals traders
- **Rwanda Mining Association (RMA)**, an organisation for mining companies in Rwanda

The category of associate membership has been dormant for several years, but the Executive Committee sees great potential to use it as a way of expanding and strengthening our relationships with key non-commercial stakeholders, such as other associations, academia and government bodies.

There are currently eighty-seven commercial members and three associate members. All their contact details can be found from page 26 onwards and on our website.
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Ferro Tungsten

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Copper & Alloys
Aluminium & Alloys
Lead

MINOR METALS
Niobium
Tantalum
Tungsten

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Statistics

The T.I.C. statistics service is a useful guide to trends in the industry and over the last year the move from a fax/email system to an online data collection website has been a big success. A questionnaire of members’ views taken in February revealed that 81% of members found the new website easy to use, while 93% of members said they were confident that their data was handled confidentially by the independent data collector, Miller Roskell Ltd, a chartered accountant. Please note that the T.I.C. has no access to an individual member’s data.

The questionnaire also gave valuable guidance on what additional information members wished to see as part of the Association’s statistics service (in descending order of popularity): global trade data, third-party market analysis, third-party data, commentary on T.I.C. data. The questionnaire results are available in Bulletin No 169 (April 2017). The Statistics Subteam, lead by Alexey Tsorayev, is actively pursuing several options and will be revealing its proposal to members shortly.

Supply Chain

This year has seen considerable debate regarding possible changes to the U.S. Dodd-Frank Act, Section 1502 (DF-1502), the regulation covering reporting requirements for U.S. companies sourcing tantalum, tin, tungsten and gold from the DRC and neighbouring countries. In April the T.I.C. wrote open letters to the U.S. Securities and Exchange Commission (SEC) and the U.S. Department of State concerning their reconsideration of DF-1502 (see Bulletin No 169). In these letters, it stated that while the T.I.C. absolutely supports due diligence requirements for mineral sourcing provenance and appreciates the extra weight that DF-1502 brings to our industries’ due diligence efforts, our members believe that the wording of DF-1502 incorrectly stigmatizes a select few minerals and countries. We therefore recommended that they used this opportunity to review and improve DF-1502 to enable clear and uniform implementation in line with the OECD guidance. DF-1502 is a critical issue for our industry and the T.I.C. will continue to be involved for as long as is required.

The other significant item has been the passage of the European Union’s Conflict Minerals Regulation into law. It became legislation in June and is due to come into force in Europe on January 1st 2021. If the UK leaves the EU then a cloned version of this law is expected to be adopted by the British government.

Considering these developments, it is now more important than ever to build strong relationships with the other organisations involved with tantalum and niobium.
Transport of NORM

“Education” has been the key word this year concerning the T.I.C.’s work on the transport of naturally occurring radioactive materials (NORM). This is a critical subject for the T.I.C. since many ore bodies containing tantalite also contain the radioactive elements thorium (Th) and uranium (U).

In December 2016, the T.I.C. published a new guide, “Transporting NORM”. The report was written by Ulric Schwela of Salus Mineralis, a former Technical Officer of this Association, and has since been checked by experts at the International Atomic Energy Agency (IAEA) and TFWG. During 2017 this report has been translated into Chinese, French, Japanese, Portuguese and Russian. Given the increased interest in Colombian tantalite the report will soon be available on our website in Spanish too.

This year the T.I.C. attended two stakeholder meetings at the IAEA in Vienna, Austria and continued to sit on both the IAEA Transport Safety Standards Committee (TRANS SCC) and Transport Facilitation Working Group (TFWG). This year the T.I.C. joined the IAEA NORM Project and rejoined the EAN-NORM group, two transport working groups.

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 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 2017
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; http://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 http://www.tanb.org/view/antitrust-compliance-policy.
Presidents of the Association

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

- Niobium Oxide, Nb based alloys, Pure Nb metal
- Tantalum Oxide, Ta based alloys, Tantalum Powder, Tantalum Metal
- Also supply Zr, Hf, Mo, V, Re in form of oxide, alloy and pure metal.
- Buyer of relative raw materials: Tantalite, Columbite, Recyclables, and other raw materials with Ta or Nb contained.
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<td>52nd</td>
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<td>Cape Town, South Africa</td>
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<td>York, United Kingdom</td>
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<td>56th</td>
<td>October 2015</td>
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<td>57th</td>
<td>October 2016</td>
<td>Toulouse, France</td>
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<td>58th</td>
<td>October 2017</td>
<td>Vancouver, BC, Canada</td>
</tr>
</tbody>
</table>

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Website: www.otic.com.cn
**Speakers’ Biographies**

Biographies are of the lead author of presentations (alphabetical by surname, not in running order).

**Hillary Amster, Conflict-Free Sourcing Initiative**

*Advancing responsible sourcing through the CFSI*

Hillary Amster is the Audit Program Manager at the Conflict-Free Sourcing Initiative (CFSI), managing the Conflict-Free Smelter Program (CFSP) on behalf of the CFSI’s 350+ 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.

**Yves Bawa, Pact**

*The iTSci programme: bringing more transparency in the 3Ts supply chain by Marlene Wafer (Pact Inc.), Yves Bawa (Pact Inc.), Karen Hayes (Pact Inc.) and Kay Nimmo (ITRI Ltd)*

Yves Bawa is the DRC-based Pact Country Director for the Democratic Republic of the Congo (DRC), Rwanda, Burundi and Uganda. Mr Bawa is also Regional Director for field activities of the ITRI Tin Supply Chain Initiative (iTSCI) Programme, the due diligence and mineral traceability system in Africa’s Great Lakes Region for conflict-free mining, overseeing field operations for over 1,700 ‘3T’ mine sites, and ensuring livelihood for over 60,000 miners. Mr Bawa’s work helps to reduce conflict in the region, while providing stability and social development.

**Ken Brinsden, Pilbara Minerals Ltd**

*The re-birth of tantalum in Western Australia by Ken Brinsden and Anand Sheth*

Ken Brinsden is a Mining Engineer with over 20 years’ experience in surface and underground mining operations, including roles in mine management, production, and brown-fields and green-fields development roles across a range of commodities. Most recently Mr Brinsden was Managing Director of Atlas Iron, contributing to the substantial growth of the company from a junior explorer to a significant Pilbara iron ore producer. Mr Brinsden joined Pilbara Minerals as Chief Executive Officer (CEO) in January 2016 and was appointed Managing Director and CEO in May 2016.

**Dr Yuri Freeman, KEMET Electronics Corporation**

*Tantalum efficiency wins the markets by Y. Freeman, P. Lessner, C. Guerrero, S. Hussey, and C. Stolarski*

Dr Freeman started his career in the Russian capacitor industry. Comparison of the degradation mechanisms in tantalum and niobium capacitors was the topic of his PhD thesis in the Physics of Solid State. Later Yuri worked as principal scientist at Vishay Sprague focusing on high CV tantalum capacitors. Currently he is Technical fellow/Vice President, Director of advanced research and strategic development in tantalum at KEMET Electronics. As Adjunct Professor Yuri is also teaching Electronic Components at the Clemson University. In October 2017 Springer International Publisher will release his book “Tantalum and Niobium-based capacitors: science, technology, and applications”.

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Francis Gatari, Rwanda Mines, Petroleum & Gas Board

Rwanda’s mining sector growth and supply chain traceability program

Mr Gatari is Chief Executive Officer of the Rwanda Mines, Petroleum & Gas Board. He has served extensively in Rwanda’s public sector. From October 2009 to July 2014, he served as Principal Private Secretary to H.E. the President of the Republic of Rwanda. He also served as the Chief Economist and Deputy Head of Policy and Strategy in the Office of The President. Prior to joining the Office of The President, he had been Principal Deputy CEO of the Rwanda Development Board. He also served as the Director General of the Rwanda Investment & Export Promotion Agency from May 2007 to September 2008. From April 2005 to October 2009, he was the Personal Representative of H.E. the President of Rwanda, to the NEPAD Steering Committee. Mr Gatari is an economist, and graduate of Harvard University’s Kennedy School of Government.

Kokoro Katayama, Metal Do Co. Ltd

The mysterious life of the tantalum atom by Kokoro Katayama and Joel Nields (Exotech, Inc.)

Kokoro Katayama graduated from the University of Oregon with a BA in Chinese language in 1995. Ms Katayama has been in the employ of Metal Do Co. Ltd since 1996 and is currently the General Manager of the Overseas Division. Metal Do is one of Japan’s largest rare metal recycling facilities, with its head office and a processing plant in Osaka, as well as warehouse and processing in Kobe and Tokyo. Ms Katayama’s focus, both domestic and internationally, is the sale of tantalum, nickel alloy, titanium, zirconium and battery scrap.

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

The annual T.I.C. statistics report

David Knudson is the Technical Officer to the T.I.C. He is a chemical engineer by training and has been in the tantalum industry for over 35 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, first to Project Engineer and then to Manufacturing Engineer responsible for flaked powders and dry processing of all powders. David spent 23 years at Cabot before joining Niotan Inc. in Nevada, USA, in 2003, rising to become Vice President of Engineering. After KEMET bought Niotan in 2011 and renamed it KEMET Blue Powder he held the position of Engineering Manager. David has been with the T.I.C. since July 2016.

Gianrocco Marinelli, Cranfield University

Wire+Arc Additive Manufacturing: a new way of producing large-scale refractory metal components by G. Marinelli, F. Martina, S. Ganguly and S. Williams

Mr Marinelli received his bachelor degree in Materials Science from the University of Bari in 2014. His thesis was about preparation and characterization of nanomaterials for advanced bioanalytical applications. He joined Cranfield University in November 2014. His research project concerns the investigation of Wire+Arc Additive Manufacturing (WAAM) for high-temperature application metals. As a material scientist, Gianrocco’s role is to design and develop an alternative route of manufacturing these alloys as well as improving the ultimate mechanical properties, according to the requirement of the final application. He currently leads two research programmes: AMAZE, subsidized by the European Union, and an industry-funded project in collaboration with AWE.
Dr Nedal Nassar, U.S. Geological Survey (USGS)
Shifts and trends in the global anthropogenic stocks and flows of tantalum

Nedal Nassar is the chief of the Materials Flow Section at the National Minerals Information Center, USGS. Employing a systems perspective, he examines the global stocks and flows of non-fuel mineral commodities at each stage of their life cycle to gain a more complete understanding of their status above ground. Dr Nassar holds a BSc in chemical engineering from the University of Minnesota, an MBA from Cornell University and a PhD from Yale University. He focused on industrial ecology spanning several research topics including developing and applying a methodology for assessing metal criticality. He also led the development of the early-warning screening methodology for assessing critical minerals. Previously, he worked as a consultant and as a process development engineer in the semiconductors and electronics industries.

Joel Nields, Exotech, Inc.
The mysterious life of the tantalum atom by Joel Nields and Kokoro Katayama (Metal Do Co. Ltd)

Joel Nields has a BA in Anthropology from The University of Wyoming. In 2003 he entered the minor metals world as a labourer at a molybdenum and tungsten recycling plant, and it was while processing Mo and W scrap that he first took an interest in tantalum and niobium. In 2005, he transitioned from Processing to Quality Control and by 2006, had moved into Purchasing and Sales. From 2006 to 2015, Mr Nields organically grew a tantalum and niobium scrap business into a viable concern. He is now Director of Sales at Exotech, Inc., an ISO 9001:2008 accredited and EICC/CFSI-certified processor with activities in tantalum, niobium, hafnium, zirconium, molybdenum and tungsten.

Signe Ratso, European Commission, DG Trade
New EU Regulation on conflict minerals

Signe Ratso has been Director in DG TRADE since 2007. Currently she is responsible for Trade Strategy and Analysis as well as market access issues, including implementation issues. Her Directorate is also in charge of the industrial sector aspects of the EU trade policy, including energy and access to raw materials. Before joining the Commission Signe Ratso worked as Deputy Secretary General (from 1994 to 2005) at the Ministry of Economic Affairs and Communications of the Republic of Estonia. She has also been at the lead of Estonia's economic reforms and Estonia's accession to the EU. She graduated in 1983 from Tartu University, Estonia, as an English philologist, and in 1993 in International Trade and International Economics.

Dr George Simandl, British Colombia Geological Survey
Tantalum and niobium resources – perspective of North American explorationists by G.J. Simandl, D.L. Trueman (Consulting Geologist), and R.O. Burt (Consulting Metallurgist)

Dr Simandl has a BSc and MSc in Geology from the Concordia University, Montréal and Carleton University, Ottawa, respectively. His PhD in Mineral Engineering was awarded by Ecole Polytechnique de Montréal, Montréal. From 1978 to 1990 George held exploration and applied research positions with Iron Ore of Canada, Atomic Energy of Canada, Canada Talc Industries, and worked as an independent geological consultant. In 1990 he joined the British Columbia Geological Survey as an Industrial Minerals Geologist and became the Industrial Minerals Specialist in 1998. Since 2004, his responsibilities have focused on critical and specialty metals, including niobium and tantalum. He is credited with over 200 technical, market-oriented, and scientific publications.
Dr Melanie Stenzel, H.C. Starck Tantalum & Niobium GmbH

*Tantalum, beyond capacitors*

Dr Stenzel graduated in 1996 in Chemistry at the Technical University in Clausthal, Germany. In 1999, she made her PhD in Polymer chemistry by working on kinetic analysis using thermo-analytical methods. Beginning of 2000 she joined EPCOS as development engineer developing niobium capacitors for four years. After another two years working at a start-up company in the recordable DVD business, a big interest in electronic materials brought her back into the tantalum industry by working for H.C. Starck as application engineer for capacitor materials starting in 2006. In 2008, she took over the responsibility for the Strategic Marketing and New Business Development for Tantalum & Niobium Products.

Chris Stolarski, KEMET Electronics Corporation

*Ultra-low profile capacitors by C. Stolarski, S. Lingala, K. Moore and B. Summey*

Chris Stolarski received a BSc in chemical engineering from the Ohio State University and an MSc in aerospace engineering from Texas A&M University. He served in the U.S. Navy nuclear program and qualified as an engineer of navy nuclear propulsion plants. He joined KEMET in 1993 and has held positions in manufacturing, process engineering and technology in the solid tantalum and aluminium business group. He was the operations manager for KEMET’s solid aluminium capacitor line in Suzhou, China. His current responsibilities include tantalum powder and specialty platform development. During his career and among his other responsibilities, Mr Stolarski has had nine US patents granted.

Patrick Stratton, Roskill Information Services

*The changing face of tantalum by Patrick Stratton, Jack Anderson and Robert Baylis*

Patrick Stratton began his career with Roskill in 1986, after graduating from Middlesex Business School (UK) and the Ecole Supérieure de Commerce, Reims (France). Considering that his degree project concerned supply risks associated with strategic metals, it was inevitable that he would join Roskill. He left the company in 1990 and spent ten years with a large engineering consultancy and with the Canadian Embassy in London, before emigrating to Canada in 2000. He re-joined Roskill in 2002, has authored or co-authored several editions of Roskill’s reports on tantalum and niobium and has undertaken numerous consulting projects covering those commodities. He is a regular speaker at conferences and sits on the T.I.C.’s statistics subteam.

Yasuhisa Sugawara, TOKIN Corporation

*Development of polymer tantalum capacitors with high rated voltage*

Mr Sugawara works in the Product Engineering Department of the Capacitor Division. After graduation from University he went to work for NEC TOKIN Corporation. His responsibilities as a Capacitor Development Engineer began with tantalum capacitor development. In 2005, he graduated from Tohoku University in Sendai, Japan, with an MSc in Chemistry. Later the same year he joined NEC TOKIN Corporation in the Research & Development Division. In 2016, he joined the Capacitor Division.
Eric Tizon, Maboumine

An update on the Maboumine project

Eric Tizon graduated from Toulouse Chemical engineering school in France in 1998. He also holds an MBA degree obtained with Manchester Business School in 2012. After a first experience in the fine chemical industry, he started his career in the mineral processing industry in 2001 with Pechiney as a Bauxite and Alumina research and technical assistance engineer in France. In 2005 he moved to Australia where he held a number of process engineering and management roles with Rio Tinto and BHP Billiton. He joined the Maboumine project in Paris in 2012 as process manager, and is now acting as Project Manager for Maboumine.

Yang Guo-qi, Ningxia Orient Tantalum Industry Co. Ltd

Progress of nitrogen doping technology in capacitor-grade tantalum powder, by Yang Guo-qi, Li Zhong-xiang, Li Hui, Ma Hai-yan, Luo Guo-qing and Zhao Chun-xia (presented by Jiang Bin)

Yang Guo-qi is a senior engineer who graduated from the Central South University, China, in 1996, since when he has been engaged in research and development on tantalum powder. In 2005, he was appointed OTIC expert and in 2008 he undertook KEMET Electronics’ quality certification training program. He was selected into the “State Western Project” from 2010 to 2011 and has also studied at Bolton University in the UK. In 2012, he was hired as the first group of technology leaders by China Nonferrous Metal Mining (Group) Co. Ltd (the world's top 500). As a domestic expert in this field, he has hosted and participated in 8 provincial and ministerial projects, published 18 papers, is named on over 30 national invention patents and has 13 patents authorized.

Alicia Chen, Dell Inc.

Alicia Chen is the Responsible Material Sourcing Program manager at Dell. In her role, she is responsible for managing the conflict minerals program and Dell’s overall responsible raw materials sourcing strategy. In the past year, Alicia expanded the program beyond conflict minerals requirements and authored Dell’s first public Responsible Sourcing Report. As an active member of Conflict-Free Sourcing Initiative (CFSI) and Responsible Raw Material Initiative (RRMI) working groups, Alicia works closely with industry peers to advance corporate responsibility in raw materials sourcing for the electronic industry. Alicia holds an MBA from Arizona State University.

Members of the panel:

“Downstream perspectives on minerals due diligence procedures”
Per Loof, KEMET Corporation

Mr Per-Olof Loof is the Chief Executive Officer of KEMET Corporation and the Chairman of the board of TOKIN, a KEMET company based in Tokyo, Japan. KEMET and TOKIN are leading global manufacturers of electronic components with 16,000 employees and operations in over 30 countries. The company has headquarter-operations in Greenville, South Carolina, Tokyo and Fort Lauderdale, Florida. Mr Loof is also the past President and CEO of Sensormatic Electronics Corporation, the world’s leader in electronic security. He led the organization through a turnaround and managed its acquisition by Tyco International, Ltd. 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. Founded in 1919, it is the world’s oldest such academy and promotes the exchange of knowledge throughout science and business in Sweden and internationally. He was recently inducted into Nova Southeastern University’s H. Wayne Huizenga College of Business & Entrepreneurship Hall of Fame. Mr Loof has served as Honorary Consul of Sweden for the State of Florida since he received his exequatur from the US State Department on January 18th 2006, and was elected Freeman and Citizen of the City of London in 2001.

Dr Elizabeth Orlando, U.S. Department of State Foreign Service

Dr Orlando joined the State Department in 1992 and works in the Bureau of Economic Affairs in the Office of Threat Finance and Countermeasures, which includes overseeing implementation of the Dodd-Frank Act on Conflict Minerals and artisanal mining issues. She holds a BA from Mount Vernon College (now George Washington University) and a JD from the University of Akron School of Law. Dr Orlando worked at a private law firm for three years and as a mediator for the city of Akron. She was a Court Advocate for victims of violence in NY before joining U.S. Department of State. She earned a Certificate in the National Environmental Policy Act (NEPA) from Duke University in 2012. Her writing has been published, including in the Washington Times and she has a book of poetry and prose “A Field of Flowers: Tales from a Diplomat’s Journey”. Dr Orlando continues to work with various community groups to help develop future leaders.

Julie Timon, European Commission, DG Trade

Julie Timon has been a policy officer in the European Commission’s Directorate-General for Trade for almost two years, in the unit for Market Access, Industry and Energy & Raw Materials. Julie has been involved throughout the negotiation process of the EU regulation on conflict minerals and is now actively working on the implementation of the regulation and the accompanying measures. The other topics she covers include steel-related trade issues, as well as market access issues in third countries. She has a BA from Florida International University and two MA from Sciences-Po Paris and London School of Economics.

If you are interested in making a presentation at the T.I.C.’s 59th General Assembly in October 2018 please contact info@tanb.org by March 31st 2018.
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- **Email:** ronald.gilerman@armerchants.com  
- **Website:** www.armerchants.com  
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- **Website:** www.amg-nv.com  
- **Activity:** Mining, processing

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#### Anglo American Niobio Brasil Ltda*
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- **Activity:** Niobium mining and processing

* This membership has applied for transfer at the 2017 AGM to **Niobras Mineração Ltda.**
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Email: london@argusmedia.com
Website: www.argusmedia.com/
Activity: Research and consultancy

AS International Corporation Ltd
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Website: www.alexstewartinternational.com
Activity: Assaying

ATI Specialty Alloys & Components
Address: P.O. Box 460, Albany, Oregon 97321, United States
Email: corey.smith@atimetals.com
Website: www.ATImetals.com
Activity: Niobium secondary processing

Avon Specialty Metals Ltd
Address: Empire Way, Gloucester, GL2 5HY, United Kingdom
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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@bwminerals.com.sg
Website: www.hhezhong.com
Activity: Trading

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

Buss & Buss Spezialmetalle GmbH
Address: Sassnitzer Strasse 10, 18551 Sagard, Germany
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Website: www.buss-spezialmetalle.de
Activity: Recycling

CBMM
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Website: n/a
Activity: Processing

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Email: shiraz@shalina.com
Website: www.shalinarources.com
Activity: Mining

CNMC Ningxia Orient Group Co., Ltd
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Website: www.otic.com.cn
Activity: Processing

Commerce Resources Corporation
Address: Suite 1450, 789 West Pender Street, Vancouver, BC, V6C 1H2, Canada
Email: cgrove@commerceresources.com
Website: www.commerceresources.com
Activity: Potential miner

Conflict-Free Sourcing Initiative (CFSI) Associate
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Activity: Trade association

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Website: www.cronimet.com
Activity: Trading, processing

D Block Metals LLC
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Email: craig@dblockmetals.com
Website: www.dblockmetals.com
Activity: Recycling

Duoluoshan Sapphire Rare Metal Co. Ltd of Zhaoqing
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Email: dlsnsy.aliyun.com and dls_purchase@163.com
Website: www.zqdls.com
Activity: Processing

EcoWhite Trading Ltda
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Email: gerentegeral@ecowhite.com.br
Website: www.ecowhite.com.br
Activity: Mining, processing, recycling
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<tr>
<th>Company Name</th>
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<th>Email</th>
<th>Website</th>
<th>Activity</th>
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<tbody>
<tr>
<td>ELG Utica Alloys Ltd</td>
<td>Unit 1, Adwick Park, 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>
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<td><a href="mailto:info@elitematerial.com">info@elitematerial.com</a></td>
<td><a href="http://www.elitematerial.co.uk">www.elitematerial.co.uk</a></td>
<td>Design and manufacture of tantalum components and equipment</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>
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<td>Tantalum mining</td>
</tr>
<tr>
<td>Exotech, Inc.</td>
<td>1851 Blount Road, Pompano Beach, FL 33069, US</td>
<td><a href="mailto:exotech@exotech.com">exotech@exotech.com</a></td>
<td><a href="http://www.exotech.com">www.exotech.com</a></td>
<td>Recycling</td>
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<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>
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<tr>
<td>FIR Metals &amp; Resource Ltd</td>
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<td><a href="mailto:tang396919@hotmail.com">tang396919@hotmail.com</a></td>
<td>en.chinatanb.com</td>
<td>Processing</td>
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<tr>
<td>Global Advanced Metals</td>
<td>880 Winter Street, Waltham, MA 02451, US</td>
<td><a href="mailto:info@globaladvancedmetals.com">info@globaladvancedmetals.com</a></td>
<td><a href="http://www.globaladvancedmetals.com">www.globaladvancedmetals.com</a></td>
<td>Mining, processing</td>
</tr>
<tr>
<td>Guangdong Rising Rare Metals-EO Materials Ltd</td>
<td>Shen’gang, Taiping Town, Conghua District, Guangzhou, 510980 , China</td>
<td><a href="mailto:ctns723@163.com">ctns723@163.com</a></td>
<td><a href="http://www.ctns723.com">www.ctns723.com</a></td>
<td>Processing</td>
</tr>
<tr>
<td>Guangdong Zhiyuan New Material Co. Ltd</td>
<td>Qiaotou Town, Yingde City, Guangdong Province, 513055, China</td>
<td><a href="mailto:lijuewu@zhiyuanm.com">lijuewu@zhiyuanm.com</a></td>
<td><a href="http://www.zhiyuanm.com">www.zhiyuanm.com</a></td>
<td>Processing</td>
</tr>
</tbody>
</table>
H.C. Starck GmbH**
Address: Im Schleeke 78-91, 38642 Goslar, Germany
Email: marc.hueppeler@hcstarck.com
Website: www.hcstarck.com
Activity: Processing

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

Honeywell Specialty Chemicals Seelze GmbH
Address: Wunstorfer Strasse 40, 30926 Seelze, Germany
Email: thomas.scholten@honeywell.com
Website: www.honeywell.com
Activity: Supply of chemicals for processing

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

Jiujiang Jinxin Non-ferrous Metals Co. Ltd
Address: Room 1101, Oriental Juno Tower, 198 Changhong Road, Jiujiang City, Jiangxi Province, China
Email: janny@jiujiangjx.com; nancy@jiujiangjx.com
Website: www.jiujiangjx.com
Activity: Processing

Jiujiang Nonferrous Metals Smelting Corporation 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

** This membership has applied for transfer at the 2017 AGM to H.C. Starck Tantalum & Niobium GmbH.
TANTALUM & NIOBIUM
ASM is CFSi Conflict-Free and extensively involved in the procurement and supply of Tantalum and Niobium scrap and primary, ingot, solids, turnings, sputtering targets, capacitors, anodes, top hats, pins and various Ta and Nb containing alloys. ASM also holds regular stocks of Nickel-Niobium and Ferro-Niobium for delivery to our customers.

OTHER MINOR METALS & FERRO ALLOYS
ASM are a stock-holder of the following primary and scrap minor-metals and ferro-alloys:

- Aluminium: Pure pebbles, droplets, ingots, quadrant, wire, granules, half spheres and Ferro-Aluminium
- Chromium: DDB, electrolytic, aluminothermic, targets, powder, flakes and Ferro-Chrome
- Hafnium: Crystal bar, scrap, targets, EB ingots and Nickel-Hafnium
- Magnesium: Pure and Nickel-Magnesium
- Manganese: Electrolytic flakes (Selenium free version also available)
- Molybdenum: Pure bar, plate, scrap, TZM, MoTi, MoNb, MoTi and Ferro-Molybdenum
- Rhenium: **Exclusive UK/EU agents for Thompson Creek Re Metal Pellets and APR**
- Silicon: Pure metal lumps, powder and solar scrap
- Titanium: CP and 6/4 scrap, sponge and Ferro-Titanium 70%
- Tungsten: Pure bar, plate, scrap, WC, WCCo, Densalloy, WTi, Ferro-Tungsten
- Vanadium: Pure, Nickel-Vanadium, Vanadium-Aluminium, Ferro-Vanadium
- Zirconium: Scrap 702 (CP), 704, 705, Zircaloy 2/4, Nickel-Zirconium, Ferro-Zirconium

NICKEL & COBALT ALLOYS
ASM is a major processors of Ni and Co superalloys including but not limited to, Inconels, Incolloys, Hastelloys, Stellites, MARM, GTD, MGA and PWA in all forms (solids, turnings, grindings, sludges). ASM is also a specialist in processing Rhenium bearing alloy scraps.

MASTERALLOYS MANUFACTURING & SUPPLY
Avon Specialty Metals are involved in the manufacture and supply of the following masteralloys:

- Aluminium Base: Al-Cr, Al-Cu, Al-Fe, Al-Mg, Al-Mn, Al-Ni, Al-Sc, Al-Si, Al-Sr, Al-Ti, Al-V, Al-Zr (*Made In-House*)
- Rare-Earths: Nickel-Cerium, Nickel-Lanthanum and Nickel-Yttrium

BUSINESS SERVICES
ASM provide scrap management, tolling, investment, risk management, technical manufacturing and logistics services to Oil & Gas, Mining, Medical, Aerospace, Steel, Power, Chemical and Thin-Film industries with specialisms in sputtering target, aero/gas turbine overhaul units and revert scrap management systems.

COMMERCIAL TRADER CONTACTS

Steven Munnoch  stevenmunnoch@avonmetals.com  +447980715033  Avon Specialty Metals Ltd
Richard Lewis  richard.lewis@avonmetals.com  +447980715021  Empire Way
Dan Bowman  dan.bowman@avonmetals.com  +447980715032  Gloucester
Office  enquiries@avonspecialtymetals.com  +441452305666  GL2 5HY, England

www.avonspecialtymetals.com
KEMET Electronics Corp.
Address: P.O. Box 5928, Greenville SC 29606, 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.kromecommodities.com
Activity: Trading

Kuala Keti 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

Malaysia Smelting Corporation
Address: 27 Jalan Pantai, 12000 Butterworth, Malaysia
Email: msc@msmelt.com
Website: www.msmelt.com
Activity: Tin smelting

MERSEN Deutschland Linsengericht GmbH
Address: Lagerhausstrasse 7-9, 63589 Linsengericht, Germany
Email: stephane.trefalt@mersen.com
Website: www.mersen.com
Activity: Design and manufacture of tantalum components and equipment

Metal Do Co. Ltd
Address: ONTEX Namba Bld. 11F, 2-2-45, Minatomachi, Naniwa-ku, Osaka 556-0017, Japan
Email: metaldo@raremetal.co.jp
Website: www.raremetal.co.jp/en
Activity: Trading

Metalink International Co. Ltd
Address: Metalink Building, 8 East Jinxin Road, Jiangjun Avenue, Jiangning Economic Development Area, Nanjing, 211153, China
Email: metalink@metalink.com.cn
Website: www.metalink.com.cn/en
Activity: Recycling, trading
Metallurgical Products India Pvt. Ltd
Address: T-27, MIDC Industrial Area – Taloja, District Raigad, Maharashtra 410208, India
Email: vkumar@mpl.co.in
Website: www.mpl.co.in
Activity: Processing

Metalysis Ltd
Address: Materials Discovery centre, Unit 4 R-Evolution@TheAMP, Brindley Way, Catcliffe, Rotherham S60 5FS, United Kingdom
Email: ian.margerison@metalysis.com
Website: www.metalysis.com
Activity: Tantalum secondary processing

Metherma KG
Address: Arnheimerstrasse 109, 40489 Düsseldorf, Germany
Email: molybdenum@metherma.de
Website: www.metherma.de
Activity: Recycling, trading

Mineração Taboca SA
Address: Vila Pitinga s/n, Zona Rural, Presidente Figueiredo, AM 69735-000, Brazil
Email: lpagnoncelli@mtaboca.com.br
Website: www.mtaboca.com.br
Activity: Mining, processing

Minerals Resources International AG
Address: Zugерstrasse 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

Minor Metals Trade Association (MMTA)  
Address: Suite 53, 3 Whitehall Court, London SW1A 2EL, United Kingdom
Email: maria@mmta.co.uk
Website: www.mmta.co.uk
Activity: Trade association

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
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Email</th>
<th>Website</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MTU Aero Engines AG</td>
<td>Dachauer Strasse 665, 80995 München, Germany</td>
<td><a href="mailto:stefanie.winter@mtu.de">stefanie.winter@mtu.de</a></td>
<td><a href="http://www.mtu.de/en">www.mtu.de/en</a></td>
<td>Aerospace industry, aerospace alloys, user</td>
</tr>
<tr>
<td>NAC Kazatomprom</td>
<td>D. Kunayev st. 10, 010000 Astana, Republic of Kazakhstan</td>
<td><a href="mailto:abeken@kazatomprom.kz">abeken@kazatomprom.kz</a></td>
<td><a href="http://www.kazatomprom.kz/en">www.kazatomprom.kz/en</a></td>
<td>Processing</td>
</tr>
<tr>
<td>Neometals Ltd</td>
<td>Level 3, 1292 Hay St, West Perth WA 6005, Australia</td>
<td><a href="mailto:mtamlin@neometals.com.au">mtamlin@neometals.com.au</a></td>
<td><a href="http://www.neometals.com.au">www.neometals.com.au</a></td>
<td>Mining</td>
</tr>
<tr>
<td>New Material Corporation</td>
<td>3F, No 3 Yoshida Bldg, 3-13-4, Akasaka, Minato-ku, Tokyo 107-0052, Japan</td>
<td><a href="mailto:k.higa@newmaterial.jp">k.higa@newmaterial.jp</a></td>
<td><a href="http://www.newmaterial.jp">www.newmaterial.jp</a></td>
<td>Trading</td>
</tr>
<tr>
<td>NPM Silmet AS</td>
<td>Keskstr 2, 40231 Sillamäe, Estonia</td>
<td><a href="mailto:t.vau@neomaterials.com">t.vau@neomaterials.com</a></td>
<td><a href="http://www.neomaterials.com">www.neomaterials.com</a></td>
<td>Processing</td>
</tr>
<tr>
<td>Plansee SE</td>
<td>Metallwerk-Plansee-Str. 71, 6600 Reutte, Austria</td>
<td><a href="mailto:eduard.kotz@plansee.com">eduard.kotz@plansee.com</a></td>
<td><a href="http://www.plansee.com">www.plansee.com</a></td>
<td>Secondary processing</td>
</tr>
<tr>
<td>Refractory Metals Mining Co. Ltd</td>
<td>1008A Shing Chuen Industrial Building, 25 Shing Wan Road, Tai Wai, Shatin, Hong Kong, China</td>
<td><a href="mailto:info@mmmc.com.hk">info@mmmc.com.hk</a></td>
<td>n/a</td>
<td>Mining, trading</td>
</tr>
<tr>
<td>Resind Indústria e Comércio Ltda</td>
<td>Rodovia 265 Km 264, Distrito Industrial, Caixa Postal 157, São João del Rei, MG 36315-000, Brazil</td>
<td><a href="mailto:almirclemente@resind.com.br">almirclemente@resind.com.br</a></td>
<td><a href="http://www.resind.com.br">www.resind.com.br</a></td>
<td>Secondary processing</td>
</tr>
</tbody>
</table>
Equipped with 16 years of experience in the tantalite/niobium industry, SMB Sarl is located at #11, Ave du Golf, Katindo - Gauche, Goma, Nord-Kivu, DRC. SMB is a Congolese mining company that was established and started extraction, processing and exportation of microlites (Coltan) on Nov. 06, 2001. SMB holds the industrial mining permit No. 4731 granted by the government of the DR Congo.

SMB has embarked on a traceability programme by iTSCI since 2014. SMB adheres to a due diligence and chain of custody of minerals to avoid any possible contamination from armed groups.

SMB Sarl is a giant in its field, with 33.6 square kilometers, a qualified staff of 240 professionals in its Goma establishments (offices, warehouse, mineral processing center and exportation center). The mine is divided into 2 sections, a semi-mechanized and artisanal mining with more than 4000 artisanal miners.

SMB is proud to highlight the fact that it is the biggest, and number one exporting tantalite company in Africa and probably in the world.

SMB is open for business to companies willing to trade responsibly. We thank you and very much welcome your business.
Rittenhouse International Resources LLC
Address: P.O. Box 3714, Concord, NH 03302, United States
Email: dhenderson@rittenhouseir.com
Website: n/a
Activity: Trading

Roskill Information Services Ltd
Address: 54 Russell Road, London SW19 1QL, United Kingdom
Email: patrick@roskill.com
Website: www.roskill.com
Activity: Research and consultancy

Rwanda Mining Association (RMA)
Address: P.O. Box 1856, Kigali, Rwanda
Email: jeanmalic@yahoo.fr
Website: www.rma.co.rw/m/
Activity: Trade association

Scandmetal International SA
Address: Rue Louis Hymans 45, 1050 Brussels, Belgium
Email: metals@scandmetal.com
Website: www.scandmetal.com
Activity: Trading

Shalina Resources Ltd
Address: 30th Floor, Almas Tower, Jumeirah Lake Towers, P.O. Box 340575, Dubai, United Arab Emirates
Email: uday.shetty@shalina.com
Website: www.shalinaresources.com
Activity: Mining

Société Minière de Bisunzu (SMB)
Address: 266 Avenue du Lac, Katindo Gauche, Goma, North Kivu, Democratic Republic of Congo
Email: info@smb-sarl.com
Website: www.smb-sarl.com
Activity: Mining

Solikamsk Magnesium Works JSC
Address: St Pravda 9, 618541 Solikamsk, Permkiy Krai, Russia
Email: sales@smw.ru
Website: www.smw.ru
Activity: Processing

Specialty Metals Resources SA
Address: Rue Tenbosch 42A, 1050 Brussels, Belgium
Email: philippe.lavagna@smr.hk; quentin.lamarche@smr.hk
Website: www.smr.hk
Activity: Trading
<table>
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<tr>
<td><strong>Standard Resources Corporation</strong></td>
<td>Address: 1141 Marlkress Road, Cherry Hill, New Jersey 08003, United States</td>
<td>Email: <a href="mailto:alberthayoun@standardresources.us">alberthayoun@standardresources.us</a></td>
<td>Website: <a href="http://www.standardresources.us">www.standardresources.us</a></td>
<td>Activity: Trading</td>
</tr>
<tr>
<td><strong>Stapleford Trading Limited</strong></td>
<td>Address: Wayside, Stapleford Road, Stapleford Abbots, Romford, Essex RM14 1EJ, United Kingdom</td>
<td>Email: <a href="mailto:jim@staplefordtrading.co.uk">jim@staplefordtrading.co.uk</a></td>
<td>Website: <a href="http://www.staplefordtrading.co.uk">www.staplefordtrading.co.uk</a></td>
<td>Activity: Trading</td>
</tr>
<tr>
<td><strong>Strategic Minerals Spain SL</strong></td>
<td>Address: Ctra. OU-0901 Km 14, 32558 Penouta (Viana do Bolo), Orense, Spain</td>
<td>Email: <a href="mailto:contact@strategicminerals.com">contact@strategicminerals.com</a></td>
<td>Website: <a href="http://www.strategicminerals.com">www.strategicminerals.com</a></td>
<td>Activity: Mining</td>
</tr>
<tr>
<td><strong>Taike Technology (Suzhou) Co. Ltd</strong></td>
<td>Address: No. 20 Chengyang Road, Suzhou Xiangcheng Economic Development Area, Suzhou, Jiangsu 215131, China</td>
<td>Email: <a href="mailto:annali@taike-sz.com">annali@taike-sz.com</a></td>
<td>Website: <a href="http://www.taike-sz.com/index-eng/product.asp?classid=125">www.taike-sz.com/index-eng/product.asp?classid=125</a></td>
<td>Activity: Tantalum processing</td>
</tr>
<tr>
<td><strong>Tantec GmbH</strong></td>
<td>Address: Tantalstraße 1-3, 63571 Gelnhausen, Germany</td>
<td>Email: <a href="mailto:g.raab@tantec-group.com">g.raab@tantec-group.com</a></td>
<td>Website: <a href="http://www.tantec-online.de">www.tantec-online.de</a></td>
<td>Activity: Design and manufacture of tantalum components and equipment</td>
</tr>
<tr>
<td><strong>Telex Metals LLC</strong></td>
<td>Address: 105 Phyllis Drive, Croydon, PA 19021, United States</td>
<td>Email: <a href="mailto:info@telexmetals.com">info@telexmetals.com</a></td>
<td>Website: <a href="http://www.telexmetals.com">www.telexmetals.com</a></td>
<td>Activity: Recycling</td>
</tr>
<tr>
<td><strong>Thailand Smelting &amp; Refining Co. Ltd</strong></td>
<td>Address: 80 Moo 8 Sakdidej Road, Tambon Vichit, Amphur Muang, Phuket 83000, Thailand</td>
<td>Email: <a href="mailto:sales@thaisarco.com">sales@thaisarco.com</a></td>
<td>Website: <a href="http://www.thaisarco.com">www.thaisarco.com</a></td>
<td>Activity: Tin smelting</td>
</tr>
<tr>
<td><strong>TOKIN Corporation</strong></td>
<td>Address: 560 Nyuzen, Nyuzen-machi, Shimoniiikawa-gun, Toyama 939-0626, Japan</td>
<td>Email: <a href="mailto:s-arai-sx@tokin.com">s-arai-sx@tokin.com</a></td>
<td>Website: <a href="http://www.tokin.com">www.tokin.com</a></td>
<td>Activity: Capacitor manufacture</td>
</tr>
</tbody>
</table>
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: david.tkach@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@china carbide.com
Website: www.china carbide.com
Activity: Carbides

Zimmer-Trabecular Metal Technology
Address: 10 Pomeroy Road, Parsippany, New Jersey 07054, United States
Email: mark.haskins@zimmerbiomet.com
Website: www.zimmer.com
Activity: Medical alloys, user
Conflict-Free Sourcing Initiative: Promoting Responsible Business Practices

The Conflict-Free Sourcing Initiative (CFSI) provides companies with tools and resources to make sourcing decisions that improve regulatory compliance and support responsible sourcing from conflict-affected and high-risk areas. With over 360 member companies, we hope for a future in which businesses can contribute positively to the fostering of peace and stability in Conflict Affected and High Risk Areas globally.

Global Standards
Supporting Responsible Business Supply Chains

Upgrading our system
• Revised Audit Standards with a global geographic scope and management-system approach
• Risk assessment tool for minerals and metals producers and processors to assess and communicate their risk management practices and performance
• Publicly available grievance mechanism
• Financial and technical assistance

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

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

What We Do
Resources and Training
Members have the ability to contribute your perspectives to the development of new tools and resources from the CFSI, such as white papers on conflict minerals due diligence and training on conflict minerals reporting. You gain access to cutting-edge insight, tips and a like-minded community of industry professionals and issue experts developing solutions by companies, for companies.

Tools such as the CMRT, Smelter Database, and FREE e-learning academy help companies improve on risk-management efforts, meet customer expectations, and comply with regulatory requirements.

Outreach & Recruitment
We facilitate engagement with stakeholder groups, including governments and multilateral institutions, civil society organizations, socially responsible investor groups, and to ensure your company and organization have all the relevant perspectives as you make choices about your supply chain practices. CFSI member companies coordinate efforts to engage with smelters and refiners and communicate the benefits of participating in the Conflict-Free Smelter Program (CFSP).

Third-Party Smelter Audits
CFSP uses an independent third-party audit of smelter/refiner management systems and sourcing practices to validate compliance with CFSP protocols and current global standards. The audit employs a risk-based approach to validate smelters’ company level management processes for responsible mineral procurement. Participation in the CFSP can help smelters and refiners:
• Improve management systems
• Demonstrate progressive improvement over time
• Exhibit leadership in responsible sourcing and due diligence
• Meet customer expectations

Contact Us
1737 King Street, Suite 330
Alexandria, VA 22314 USA
Tel: +1.571.858.5727
info@conflictfreesourcing.org

www.conflictfreesourcing.org
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 2017, these are the Artisanal and Small-scale Mining Code of Conduct, Transport Policy and Antitrust Compliance Policy. All three are available online.
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.

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.
Producer of Copper Cathode, Cobalt Hydroxide, Concentrate of Tin & Tantalum

We produce high grade Copper, Cobalt, Tin and tantalum products and sulphuric acid from our mines and processing plants located in the Katanga province of DR Congo.

The company’s activities include mineral exploration, mining and processing. With its modern, in-house processing facilities for Copper, Cobalt and Sulphuric Acid the company ensures that value is created within the DRC.

Chemaf is in process of enhancing Mining and Mineral processing for operations at its various concessions of Tin and Tantalum.

DRC operating company
Chemaf SARL
144, Avenue Usoke
Lubumbashi D R Congo.

Email: shiraz@shalina.com

Parent company
Shalina Resources Limited
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