



Titomic Establishes World-Leading Technical Advisory Committee

- **Titomic to become registered Australian Research Provider for Additive Manufacturing**
- **Titomic engages leading experts in Aerospace Structures, Material Microstructures, Aeronautics and Astronautics, Metallurgy, Nano-sensors, & Corrosion**
- **Provides next generation Additive Manufacturing technologies as a national priority**
- **Applying academic research and know how to real industrial commercial application**
- **Committee to ensure Titomic's advocacy of Australian sovereign capabilities and resources for a manufacturing capability of the future**

Melbourne, Australia, June 11th, 2019: Australian digital manufacturing solutions company Titomic Limited (ASX: TTT) ("Titomic" or "Company") is pleased to announce the creation of its world-class Technical Advisory Committee (TAC).

Titomic's Non-Executive Director, Professor Richard Fox and Managing Director Mr Jeffrey Lang will join the Titomic TAC which sees the joining of the significant subject matter experts from Australia's most prolific material, structural engineering, aerospace and high-performance metals research institutes in Australia.

The TAC will consider innovative solutions for industry through collective thought leadership, industry enhancements, and application of research programs whilst maintaining a clear focus on the delivery and adoption of research in line with Titomic's strategic outputs.

In providing independent, external expert advice to Titomic's internal technical and production teams, the TAC will resolve technical issues to achieve industry success whilst assisting with designing and overseeing broader research programs and collaborative strategies run both internal at Titomic and externally. The TAC will actively explore new patent and research avenues for the Company to explore and exploit within the Industry.

The TAC will be instrumental in;

- addressing the industries broader strategic issues, challenges and opportunities relevant to the positioning TKF process in the Additive Manufacturing (AM) sector as well as any other sectors in which the Company may operate;
- reviewing technical issues, challenges and risks facing AM sector, with a view to providing advice about appropriate solutions and actions;
- reviewing the research and technical needs of Titomic or any of its customers and how Titomic may be able to meet those needs and be better aligned with customers and partners;
- discussing industry and scientific updates and advancements in AM equipment and machinery;
- proposing initiatives to provide direction and guidance in the development of the R&D projects to ensure that Titomic's scientific strategy is relevant, balanced, and can meet the expectations of different industries; and
- identifying any industry risks and recommend the implementation of risk mitigation strategies.

Mr. Jeff Lang, Titomic Managing Director commented:

"It goes without saying that we are honored and excited that these world-class scientific leaders who are all experts in their respective fields want to align themselves with Titomic to advance this rapidly growing industry.

Harnessing the technical knowledge of these experts not only highlight that Australia is at the forefront of the digital manufacturing revolution, but the experience and expertise that our committee will share will ensure Titomic's TKF process is kept at the leading-edge of the digital metal manufacturing industry globally.

We are very keen to have such a collective knowledge base in one room and watch as new technologies, material advancements, and processes eventuate all for Titomic's sole commercial outcome."

Professor Rhys Jones

Professor Rhys Jones AC is a Companion of the Order of Australia "For eminent service to mechanical and aerospace engineering, and to education as an academic, researcher and author, particularly in the area of aircraft structural mechanics, corrosion repair and airworthiness". This is the highest honour that can be given to an Australian Citizen.

Until 1993 he was employed as the Research Leader (Aircraft Structures) in the Australian Defence Science and Technology Organisation (DSTO). He joined Monash as the Chair Professor of Mechanical Engineering in 1993. Prof Jones retired from Monash at the end of December 2017. The Vice Chancellor subsequently appointed Rhys as an Emeritus Professor at Monash University.



Professor Jones is internationally acknowledged for his pioneering work in aircraft sustainment and extending the operational life of both Military and Civilian aircraft. He is acknowledged as a co-developer, together with staff at DST, of the "cubic rule" which is widely used by the RAAF to assess crack growth in operational aircraft, and is built into both the F/A-18 Structural Assessment Manual and the P3C (Orion) Repair Assessment Manual.

In addition to being made a Companion of the Order of Australia Rhys is a recipient of: 2008 Defence Science Award, from the Australian Chief Defence Scientist, for his seminal paper on thermo-elasticity which was chosen as one of the Top Ten Defence Science publications in the period 1907-2007; The 1982 Institution of Engineers Australia Engineering Excellence Award, for his work on Mirage III aircraft; A Rolls Royce/Qantas Special Commendation, for his work on RAAF F-111 aircraft; The 1989 Sir George Julius Medal, awarded by The Institution of Engineers Australia.

With over 500 publications Professor Jones has a Google Scholar h-index of 44 (not all publications are currently included), and 9,338 citations.

Dr Richard Hannink



Richard has extensive experience, of working in industry, academia and CSIRO, in characterising microstructure-property relationships of metals, ceramics and cermets and their relationship to industrial applications and performance. Richard started his career in John Lysaghts (Newcastle, Australia), moving to Richard Thomas and Baldwin (UK), the Cavendish Laboratory in Cambridge University, where he completed a PhD in Physics before moving to CSIRO Tribophysics (Melbourne) in 1973.

Richard was an integral part of the team at CSIRO who developed transformation toughened zirconia, now used extensively in the manufacturing and mining industries and as medical prostheses. Richard is currently an Honorary Fellow at CSIRO Manufacturing and on the Victorian Committee of the Australian Academy of Technology and Engineering along with his other project interests.

Dr Airlie Chapman



Airlie Chapman received the Ph.D. degree from the William E. Boeing Aeronautics and Astronautics Department at the University of Washington, Seattle in 2013. She received the M.S. degree in Mathematics from University of Washington (2013) and the M.S. degree and the B.S. degree from the University of Sydney, Australia (2008 and 2006). She is currently a lecturer in the Department of Mechanical Engineering at the University of Melbourne.

Dr. Chapman was awarded the College of Engineering Dean's Fellowship at the University of Washington and is a two-time recipient of the Amelia Earhart Fellowship. Her research interests are multi-agent dynamics, networked dynamic systems, data-driven control and graph theory with applications to robotics and aerospace systems. She has recently authored the book "Semi-Autonomous Networks" published by Springer in 2015.

Professor Ivan Cole

Prof Ivan Cole combined extensive leadership and research experience. He is currently Enabling Capability Director for Advanced Manufacturing and Fabrication at RMIT. Prior to this he spent 25 years at CSIRO and held positions including Program Director – High Performance Metal Industry and Acting Chief and Acting Chief CSIRO Manufacturing and Materials Technology.

He has nearly thirty years' experience and an internationally recognized leader in the field of life prediction, prognostics and design and fabrication of engineered structures specializing in Computational Materials Modelling (incl. geographical information systems), impact of and adaptation to climate change, Sensor Systems, Corrosion Science and Protective Coatings. His work has included the development of IT systems for damage prognostics, IT systems to predict flood damage and design guides to minimize such damage, the development of protective coatings for metals and the development of green materials and micro and nano-sensing.



He has led major projects in intelligent vehicle health monitoring for aerospace applications, nano-sensing for water quality, development of new coatings for galvanized steel and aluminum and the relation between building design/climate and component life, as well as the development of performance-based guidance standards and codes for durable buildings. He has made a significant contribution to the application of building and material science to the conservation of cultural artifacts. An extensive publication records with over 160 papers, as well as having been the chair and keynote speaker of international organizations and conferences in these areas.

Professor Raman Singh



Professor Raman Singh's primary research expertise is in corrosion and corrosion mitigation of steels and light alloys. His interests include the relationship of Nano-/microstructure and Environment-assisted degradation and fracture of metallic and composite materials, and Nanotechnology for advanced mitigation of such degradations. He has also worked extensively on use of advanced materials (e.g., graphene) for corrosion mitigation, stress corrosion cracking, and corrosion and corrosion-mitigation of magnesium alloys (including for the use of magnesium alloys for aerospace, defence and bioimplant applications).

Prof Singh's professional distinctions and recognitions include: Editor of two books (one on Non-destructive Evaluation of Corrosion (Pub: Wiley) and other on Cracking of Welds (Pub: Woodhead/CRC Press)), Editor-in-Chief of a journal, member the Editorial Boards of a few journals, leader/chairperson of a few international conferences and regular plenary/keynote lectures at international conferences, over 215 peer-reviewed international journal publications, 15 book chapters/books and over 100 reviewed conference publications,

and several competitive research grants (that includes 4 Discovery, 7 Linkage and one ITRH grants of Australian Research Council).

Prof Singh has supervised 40 PhD students. His vibrant research group at Monash University comprises of PhD students from different disciplines (Mechanical, Chemical, Materials and Mining Engineering, and Science) as well as from different cultural backgrounds (Australian, Middle-eastern, Chinese, Malaysian, Indian, African, North American and Israeli).

Professor Emad Gad

Emad is the Dean of Engineering, School of Engineering within the Faculty of Science, Engineering and Technology. Prior to this appointment he was the Chair of the Department of Civil and Construction Engineering at Swinburne University of Technology. Earlier he was an Associate Professor at Melbourne University and Research Scientist at CSIRO.

Emad is a civil engineer with extensive experience in structural dynamics, residential construction, structural connections, experimental techniques and finite element modelling. His applied research has contributed to the development of several standards and codes of practice. In addition to his teaching and research contributions, he has completed numerous consulting contracts for local and multinational clients.



He is Chair of the Board of the Australian Engineered Fasteners and Anchors Council (AEFAC), Co-Editor of the Australian Journal of Structural Engineering, appointment member of the Victorian Government Building Advisory Council (BAC), Director on the Board of the Australian Steel Institute (ASI) and Fellow of Engineers Australia.

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About Titomic Limited:

Titomic (ASX:TTT) is headquartered in Melbourne, Australia. Titomic is positioned to change the value proposition of Titanium, to unlock new applications and open opportunities that are now technically and economically viable with its proprietary Titomic Kinetic Fusion™ (TKF) technology platform.

TKF overcomes the limitations of additive manufacturing (3D printing) for metals to manufacture complex parts without shape or size constraints. TKF offers production run capability to organisations, which enables speed-to-market, superior products with lower production inputs using fewer resources for a more sustainable future.

Titomic's TKF enables first mover advantage in industrial scale manufacturing for sectors such as aerospace, defence, resources (oil & gas, mining, rail, chemical & industrial equipment), marine, construction, automotive, medical and consumer & sporting goods.

For more information, visit: www.titomic.com

Forward-looking statements: Certain statements made in this release are forward-looking statements and are based on Titomic's current expectations, estimates and projections. Words such as "anticipates," "expects," "intends," "plans," "believes," "seeks," "estimates," "guidance" and similar expressions are intended to identify forward-looking statements. Although Titomic believes the forward-looking statements are based on reasonable assumptions, they are subject to certain risks and uncertainties, some of which are beyond Titomic's control, including those risks or uncertainties inherent in the process of both developing and commercialising technology. As a result, actual results could materially differ from those expressed or forecasted in the forward-looking statements. The forward-looking statements made in this release relate only to events as of the date on which the statements are made. Titomic will not undertake any obligation to release publicly any revisions or updates to these forward-looking statements to reflect events, circumstances or unanticipated events occurring after the date of this release except as required by law or by any appropriate regulatory authority.