

# PtSA News

Newsletter of the Production Technologies Association of South Africa

Issue 27 - August/September 2023



The banner features a scenic view of Cape Town, South Africa, with Table Mountain and the sea in the background. Overlaid on the image are several logos and text elements. On the left, there is a map of Africa with 'ALL AFRICA EXPO' written on it. Next to it, 'ISTMA 2023' is written in large, bold letters, with '16TH WORLD CONFERENCE' in a smaller box below. Below this, the text 'SPECIAL TOOLING & MACHINING' is written in a smaller font, followed by 'WORLD CONFERENCE & EXHIBITION' in large, bold letters. At the bottom left, the dates '6 - 10 NOVEMBER 2023' and the location 'CAPE TOWN INTERNATIONAL CONVENTION CENTRE - SOUTH AFRICA' are listed. On the right side, there are logos for 'Hosted by PtSA Production Technologies Association of South Africa' and 'ISTMA world'.

The **world's leading** experts in tooling and special machining share their experiences and expertise on topics such as sustainable development in the tooling and special machining industry, technical advances in tooling manufacture, and skills development for the tooling industry at the 16th ISTMA World Conference.

SECURE YOUR SEAT

Register on  
[www.sbs.co.za/istma2023](http://www.sbs.co.za/istma2023)



Bob Williamson  
ISTMA World  
President

Delegates to the World Conference will be able to hear and to interact with the world-class expert speakers. We look forward to welcoming you to Cape Town in November!



**ISTMA**  
**2023**  
16TH WORLD CONFERENCE



SPEAKERS

## Meet more of the Keynote Speakers at the ISTMA World Conference



Montez King - Executive Director, NIMS

Montez King is the Executive Director of the National Institute of Metal-working Skills (NIMS) based in the USA, which is responsible for developing national standards, competency-based credentials, and training frameworks in manufacturing industries.



Eduardo Medrano - Chairman, ISTMA Americas

Eduardo Medrano is a business leader in the manufacturing industry, visionary and promoter of the tooling sector in Mexico, actively promoting the integration of high technology as a fundamental factor of the competitiveness.

He is the author of the business book "The ABC of Tooling".



Nicky Verd - Master of Ceremonies

Nicky Verd is an International Keynote Speaker, Bestselling Author, MC Extraordinaire and Panel Moderator. She is a leading thinker on driving innovation and digital transformation through personal disruption.

Nicky has been recognized by Thinkers360 and Award Magazine as one of the Top 50 Global Thought Leaders and Tech Influencers on Digital Disruption and the Future of Work.

The ALL AFRICA EXPO ISTMA 2023 event will be a unique opportunity for the South African and African Tooling industry to join a World Event



**ISTMA**  
**2023**  
16TH WORLD CONFERENCE



INDABA INVEST IN AFRICA

The African Investment Indaba Conference will expose potential investors to African investment opportunities and solicit support and investment for the growth of manufacturing on the continent

**Thursday, 9 November 2023**

Master of Ceremonies: Thandi Phele – Chief Director, the dtic

09:00	Opening: TBC
09:20	Investing in the Pearl of Africa: Prospects and Opportunities in the Motor Vehicle Industry Eng Abraham Judah Bumalirivu Muwanguzi (Ph.D) – Manager and Team Lead, National Planning Authority, Uganda / Secretariat of Science Technology & Innovation, Office of the President, Uganda
09:55	Automotive Manufacturing in Africa Alec Erwin – Past Minister Trade and Industry, South Africa – Director Investment Holdings
10:30	Refreshments
10:50	Globalisation of African Industries Eric Bruggeman – Chief Executive Officer, South African Capital Equipment Export Council
11:25	Investment in Africa H.E. Wamkele Mene – Secretary General, African Continental Free Trade Area (AfCFTA), Ghana
12:10	Panel Discussion: Moderator: Nimrod Zalk – Acting Deputy Director General South Africa, the dtic
13:00	Lunch
14:00	INDABA Ends / Visit Exhibition



Abraham Judah  
Bumalirivu  
Muwanguzi



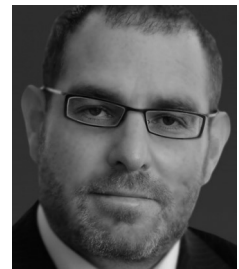
Alec Erwin



Eric Bruggeman



H.E. Wamkele  
Mene



Nimrod Zalk





**ISTMA**  
**2023**  
16TH WORLD CONFERENCE



## Meet one of the Keynote Speakers at the Indaba - Abraham JB Muwanguzi

Eng Abraham Judah Bumalirivu Muwanguzi (Ph.D) - *Manager (Science & Technology Dept) and Team Lead (Policy & Planning), National Planning Authority, Uganda / Secretariat of Science Technology & Innovation, Office of the President, Uganda*

Abraham JB Muwanguzi is a Mechanical Engineer with specialisation in extractive process metallurgy and iron and steel processing. He has experience in industrial development, and spearheaded the development of the country's industrialisation master plan, and the iron and steel industry development studies and plans for STI integration in development.



Uganda is a country situated in East Africa and boasts over 25 different types of minerals and other natural resources, with good weather averaging 25 degree centigrade throughout the year. The country aspires to become an upper middle-income economy by 2040.

It looks at Science Technology and Innovation (STI) as one of the major drivers that can enable the nation to achieve this vision. In this regard, Government supported research at the major University in the country for lecturers and students of engineering to develop an electric car.

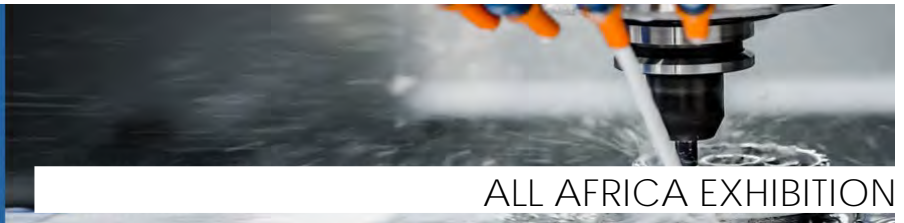
More than 10 years down the road, this research has produced a corporate company that will start the production of electric buses in 2024. The manufacturing facility was due to be completed in June 2023 and an automotive park is planned to be constructed to support the industry. Opportunities are available in various areas of the value chain.

The exhibitors below will blow you away with introductions to new technologies, service solutions and the latest developments in the manufacturing industry!

- Bystronic South Africa
- Caldeaz Manufacturing Technologies
- Capewell Springs & Metal Pressings
- Carl Zeiss GOM Metrology
- Centre for Rapid Prototyping & Manufacturing (CRPM)
- ConverTek
- CRM Tooling
- Daliff Precision Engineering
- Davis & Deale
- DG Capital
- DMG Mori
- Dramco Tooling
- Gasket & Shim Industries
- Gehring Engineering
- Grupo SOCEM Global Mold
- Network Solutions
- GstarSoft
- Guangdong V1 Industrial Internet Technology Co
- Guhring Cutting Tools
- Hermle
- Huntley Distribution
- Hybrid Infinity
- Injection Technik
- Intratech
- Marposs
- Mech-Tech Machine Tool Specialists
- Mitutoyo
- MJH Machine Tools
- MM Services
- Mould & Die Solutions
- Multitrade Distributors
- Oerlikon HRSflow
- QP Global
- Retecon
- RGC Engineering
- Somta Tools
- Stellenbosch Technology Centre
- Suresight Automatic
- TK Manufacturing
- Tooling Technik
- Top Tool
- Total Onsite Machining Solutions
- Wagner Systems
- WD Hearn Machine Tools
- Zahoransky
- Zambezi Sanitation



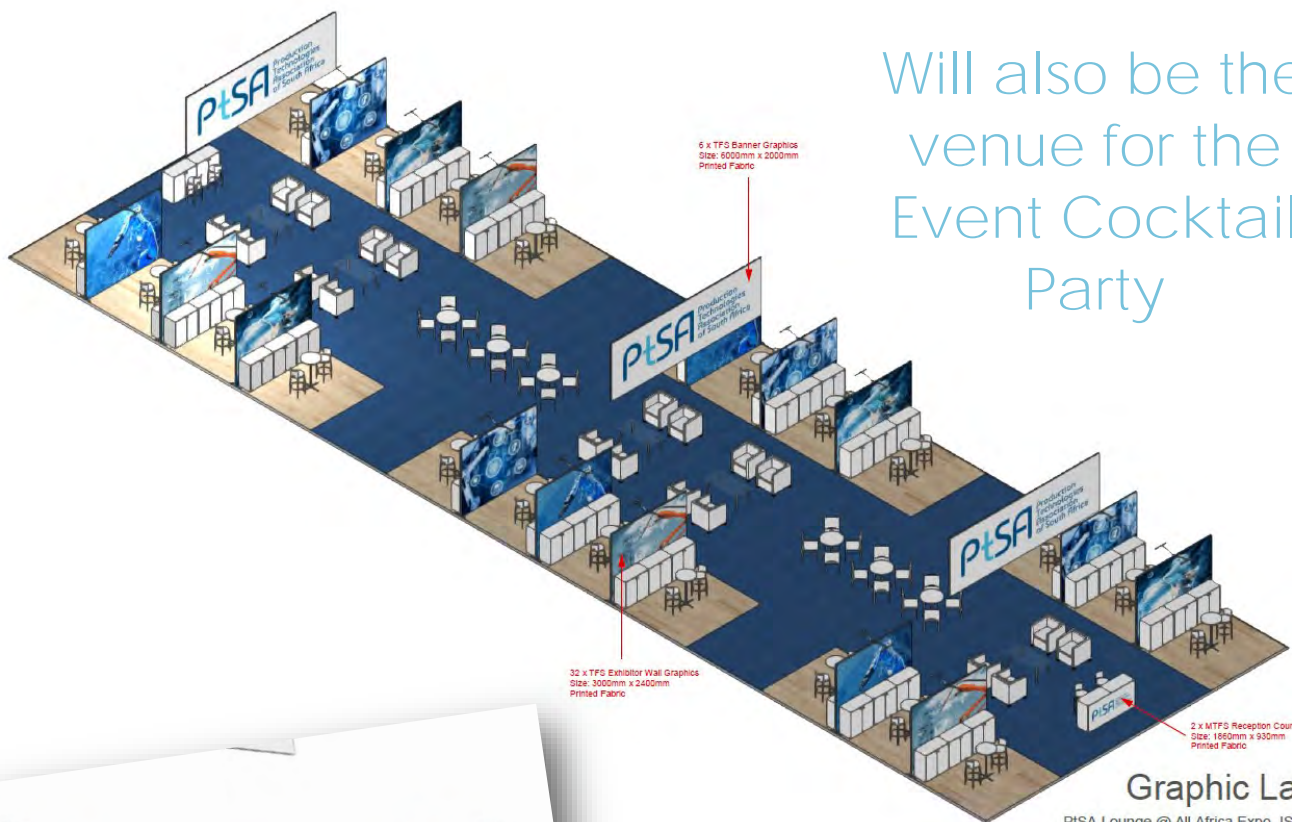
**ISTMA**  
**2023**  
16TH WORLD CONFERENCE



ALL AFRICA EXHIBITION

# Finalisation of the PtSA Lounge area of the All Africa Expo

The PtSA Lounge will form the central area of the All Africa Exhibition space



Will also be the venue for the Event Cocktail Party

## Graphic Layout

PtSA Lounge @ All Africa Expo ISTMA 2023





## MORE ABOUT OUR EXHIBITORS



The main core of CRM Tooling is the manufacturing of new tools for the local plastic injection industry. The company manages a project from the initial design stage to overseeing the final trial tests, prior to the handover of the tool to the client. They attend to all engineering changes, repairs and maintenance of the tools.



DMG-MORI is a leading global manufacturer of machine tools and is driving holistic process integration based on technology integration, automation and digitization for greater sustainability. In the interest of the highest innovation capacity, DMG-MORI have installed Technology Excellence Centres for the areas of Aerospace, Automotive, Die & Mould, and Medical in their plants around the world.



The focus for the team from Huntley Distribution is on helping manufacturing companies to excel in their process, by helping the customers plan for the best strategy for running their machines at top level.

Huntley Distribution provides technical support for the cutting tools that they supply.



OSG GROUP COMPANY

Somta Cutting Tools is the largest cutting tool manufacturer and supplier of drills, reamers, end mills, bore cutters, threading tools, tool bits, solid carbide tooling, carbide insert tooling, custom tools and surface coating solutions in Africa.



Oerlikon HRSflow (Silver Sponsor) specializes in the development and production of advanced hot runner systems for a wide range of applications in the plastic injection moulding industry.

Their qualified technical team supports their customers in all stages, from the initial design and simulation through the design and manufacture of the hot runner system including try-out support.



## DG Capital – A PtSA National Partner

DG Capital is a global financial services group that specialises in a diverse range of services encompassing funding, advisory, insurance, and logistics. With a client-centric approach, we provide comprehensive solutions tailored to each client's specific needs. Our commitment to excellence, integrity, and innovation has cemented us as a trusted partner to 200+ clients over the past 21 years.

DG Energy provides bespoke funding solutions to businesses looking to finance their solar installations.

- We fund and manage the complete process from system design to construction and operation of the system
- Established partnerships with reputable EPC's and installers
- No capital outlay for the client
- Client pays for energy consumed (subject to agreed minimums)
- Our clients benefit from energy price and supply security
- Turnaround time is a fraction of the traditional bank approval process

We are an authorised importer and distributor of Tier 1 solar panels.

- Partnership with Haitai Solar (Bloomberg NEF Tier 1 Manufacturer)
- Reliable supply and after-sales support
- Competitive prices
- Stock available immediately and consistently

In recognition of our national partnership with PtSA, we are offering members the following special valid until 30 September 2023:

- ⇒ 545W Panels @ R2,588.75 (excl. VAT and delivery)
- ⇒ 550W Panels @ R2,612.50 (excl. VAT and delivery)
- ⇒ 555W Panels @ R2,636.25 (excl. VAT and delivery)

*Stock available immediately!  
Volume-based discounts can be discussed on larger orders*





# State of the Stainless Steel Nation

**In Sassda's latest newsletter, Michel Basson (Sassda Executive Director) delves into the persistent issue of volatility within the various aspects of the South African economy. From fluctuating material prices and global supply disruptions to unpredictable local electricity supply, our State of the Stainless Steel Nation analysis examines how these uncertainties are creating a uniquely challenging set of circumstances for local stainless steel players...**

How would you categorise the performance of the South African stainless steel sector in the last year? What is the state of the market at present?

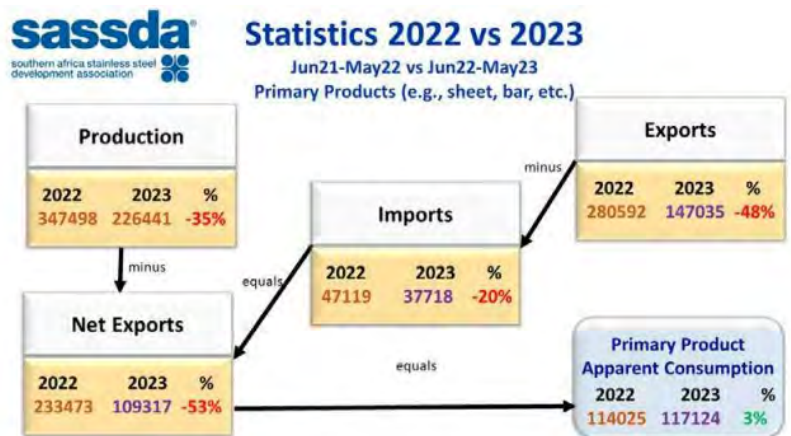
As reported earlier this year, there was an unexpected increase in the use of stainless steel in 2021, locally as well as globally. We ascribe this to two influences. Keeping in mind that stainless steel is used in applications where cleanability, hygiene, and corrosion protection are required, many projects that were put on hold during the pandemic had to go ahead in 2021 as a matter of urgency. As such, the increased use of stainless steel can be seen as the completion of many projects on temporary hold. On the other hand, many distributors started to replenish stock items as the expectations of market activity increased in 2021. It, therefore, did not come as a huge surprise when there was a lower demand for stainless steel in 2022 across the globe. The geographic markets of Europe and Africa saw a decrease in growth from a spectacular 18% in 2021 to a growth of less than 2% in 2022. In a sense, it was a period of consolidation, and the use of stainless steel was further dampened due to the spike in nickel prices in Quarter 2 of 2022. The uncertainty around electricity supply reached unknown levels in the latter part of the year with a serious impact on the manufacturing capacity of our members. This meant that any stainless steel that moved in the local value chain, moved at a snail's pace.

Please give some other meaningful stats relating to how the industry has performed? The infographic on the next page shows some of the statistics that Sassda gathers and processes. In this case, we compare the apparent local consumption

in the period June 2021 to May 2022 to the reported consumption for the 12 months from June 2022 to May 2023. The upper right block indicates the change in local production which has reduced by 35%. It should be understood that the local use of stainless steel flat products is small in comparison with the total capacity of the mill, meaning that most of the production is intended for the export market.

What are the biggest challenges facing the local stainless steel sector in the next 12 months, both global and local?

Volatility remains one of our biggest challenges. Whether that is the volatility in material prices, in global supply and logistics, or volatile local uncertainty in electricity supply. The volatility in our environment causes instability in the value chain and this impacts heavily on the effectiveness of the value chain. There is not much Sassda and the local industry can do to influence global stainless steel supply, logistics, and prices. There is also not much that the South African stainless steel sector can do to improve the current issues in Europe that are placing a damper on exports to Europe. With exchange rates against any importation of stainless steel products, it



can be an opportune time to fast track localisation and stimulate local demand for locally made products. We support and try to facilitate our members' efforts to diversify, increase productivity, and the innovative use of the capacities and skills available to the South African industry. In short, Sassda and its members understand very well that evolving and constant organisational change remains key to the survival of the industry sector.



# PtSA Toolmaker Apprenticeship Programme

## APPLICATIONS FOR FEBRUARY 2024

### NOW OPEN!!!!

# APPLY NOW

## BECOME PART OF THE FUTURE TOOLMAKERS!

*PtSA requests you, a valued employer, to take this opportunity to sponsor a deserving candidate to participate in this toolmaker apprenticeship programme.*

Qualification:	Occupational Certificate: Toolmaker, NQF Level 5 (SAQA ID 103177)
Duration:	4 Years
Starting date:	5 February 2024
Where:	Gauteng (Pretoria West), Eastern Cape (Gqeberha), Western Cape (Cape Town), KwaZulu-Natal (uMgungundlovu, Pietermaritzburg)
Training Fees:	R71 000 (VAT inclusive) per annum (Training fees exclude any stipend) (Tuition Fee: R69 500 per annum plus Registration and Admin Fee: R1 500 per annum)

We are recruiting South African and non-South African citizen candidates. A limited number of bursaries, which may include a stipend, is available to South African citizen applicants between the age of 18 and 35.

Minimum entry requirements are:

South African Citizens: Grade 12/N3/NC(V)4 = NQF Level 4

- With compulsory subjects: Mathematics and Physical/Engineering Science

Non-South African Citizens: SAQA verified NQF Level 4 equivalent qualifications

- With compulsory subjects: Mathematics and Physical Science

## Closing date is 31 October 2023

For enquiries contact:

Western Cape: André: [andred@ptsa.co.za](mailto:andred@ptsa.co.za) or 062 613 1301

Eastern Cape: Theo: [theo@ptsa.co.za](mailto:theo@ptsa.co.za) or 082 562 3087

Gauteng: Francois: [francois@ptsa.co.za](mailto:francois@ptsa.co.za) or 079 504 9387

KwaZulu-Natal: Richard: [richard@ptsa.co.za](mailto:richard@ptsa.co.za) or 073 418 5044

## PtSA AT BRICS 2023 EXPO

Team members from PtSA Gauteng Centurion and Hermanstad recently hosted visitors from around the world to the INTSIMBI stand at Gallagher in Midrand during the BRICS Expo and Summit.

The stand was hosted on behalf of INTSIMBI Future Production Technologies Initiative (FPTI), established under the auspices of the dtic and the PtSA to implement a turnaround strategy for SA distressed tooling industry.

During the exhibition, attendees were informed about INTSIMBI's strategies and representatives from all over the world. High profile visitors also visited the stand and Tapiwa Samanga, PtSA CEO showed them around! The FPTI is enabling government and industry to cooperate on the large-scale interventions required to rehabilitate the SA TDM sector for the benefit of the manufacturing sector.

The initiative drives two major programmes:

1. TDM Skills Development Programme
2. Enterprise Development Programme focusing on small, medium and micro enterprises competitiveness improvement, BBBEE structuring, cluster and export development.



## PtSA Western Cape Network Evening

PtSA Western Cape Executive Committee hosted a regional network event on 29 June. Thank you to Capewell Springs & Metal Pressings for hosting the evening.

Emile Coetzee, MD at Capewell kicked off the evening with a presentation about the company's new technologies and service offerings.

Olivier Kasikala, Assembly Manager at the Energy Storage Innovation Lab at University of Western Cape, delivered an insightful presentation about Lithium Ion Battery pack development and components of battery packs.

He also talked about the latest developments in local production. *(Full presentation on PtSA website).*

Marizanne van Niekerk shared the latest offering on behalf of PtSA National Partner Momentum.



Antoinette Bronkhorst (Photo left) received ABM **Productivity Consultants' membership certificate on the company's behalf.**

Multitrade Distributors in KZN participated in an Open House Event in collaboration with



TH Machine Tools. Visitors feasted their senses on the extensive technologies in the workshop!

Jendamark Automation, in the Eastern Cape, welcomed executives from the textile manufacturing sector, representing some of SA's biggest clothing retail brands, for a tour of the tech facilities. Guests were guided through the inner workings of LEAN manufacturing principles and shown how customers are maximising efficiencies in their manufacturing processes using Jendamark's supportive [#4IR](#) digital technologies.





# Complete Machining Solutions



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OSG GROUP COMPANY

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# Join the Best - Become part of the Network

By joining PtSA, you become part of the network of companies which forms the tool, die, mould and specialised machining industry in South Africa.

## Connectivity

- PtSA members have the opportunity to become part of the national and global network of TDM companies.

PtSA is the collective voice of the TDM industry

- The PtSA partnership agreement with government (INTSIMBI Future Production Technologies Initiative) facilitates dialogue between the TDM industry and government.

## Improvement of competitiveness of PtSA members

- PtSA, through the process of improving the competitiveness of companies, facilitates the growth of the supplier base for the benefit of the larger corporates, and in particular the OEM's.

## Training and upskilling programmes

- PtSA, as the Development Quality Partner (DQP), has developed a number of SAQA approved artisan qualifications and apprenticeship programmes for the TDM and Special Machining industry in South Africa.
- These programmes result in SAQA registered and QCTO and merSETA accredited Toolmaker NQF Level 5 and Tooling Machinist NQF Level 5.
- The programmes are offered in four facilities; QCTO accredited state-of-the-art PtSA Centres of Excellence across South Africa.

## Networking, matchmaking and information programmes

- PtSA hosts regular Networking meetings in the Western Cape, Eastern Cape, Gauteng and KwaZulu-Natal.

## Better understanding of the Fourth Industrial Revolution (4IR)

- PtSA facilitates the understanding of technology developments for its members by means of information programmes, demonstrations, publications and networking.

PtSA facilitates international connections for its members through its membership of the International Special Tooling and Machining Association (ISTMA World)

- Access to over 23 Associations in 22 countries/8000-member companies.

PtSA promotes sustainable development within the industry to ensure long term growth of the industry

- PtSA facilitates opportunities for members to have access to information, training, workshops, etc. on sustainable development.

PtSA corporate facilities are available for use by its members PtSA website provides information about international and national news, events and trends in the industry.

## Do you want to **Advertise** your product or services to the Tooling Sector?

- PtSA is offering the opportunity to advertise in the PtSA News PtSA News is widely distributed both in South Africa and Internationally
- PtSA News is the only publication which is focussed on the Tool, Die, Mouldmaking and Special Machining Industries in South Africa

Advertising Fee Structure: (Excl. VAT)

Size	Per Issue		Annually (6 issues)	
	PtSA Member	Non-Member	PtSA Member	Non-Member
1/4 page	R2 400	R4 895	R12 690	R25 395
1/2 page	R4 800	R6 630	R23 500	R34 875
Full page	R6 500	R10 760	R31 600	R55 680
Outside Back cover	R9 500	R16 600	R46 800	R85 500

Please contact Liza du Plessis at [lizadp@ptsa.co.za](mailto:lizadp@ptsa.co.za) for details, or to book an advert!