

PtSA News

Newsletter of the Production Technologies Association of South Africa

Issue 22 — September / October 2022

Newly elected PtSA Regional Executive Committees

PtSA is proud to introduce the newly elected Regional Executive Committees. These regional committees provide oversight, direction, leadership and management of the activities and affairs of PtSA in the regions.

Gauteng



Bevan Davies

Conver-Tek (Pty) Ltd
Regional Chair



Chantelle Phillips

Cutting Edge
Technologies (Pty) Ltd



Chris Greenwood

College of Production
Technology (Pty) Ltd



**Clemence
Nyasvimbo**

Engiwave cc



**Stoney
Steenkamp**

HDS Engineering (Pty)
Ltd

Eastern Cape



Stephan Aucamp

Injection Technik (Pty)
Ltd
Regional Chair



**Marinus van
Rooyen**

Jendamark Automation
(Pty) Ltd



Gideon Smith

S4 Integration (Pty)
Ltd



Maynard Gesha

TK Manufacturing cc



Khaya Madiba

Gehring Engineering
cc

Western Cape



Roxanne Edson

MouldTec SA



Malte Scherner

AAT Composites (Pty) Ltd



Lasni Millar

Wagner Systems (Pty) Ltd



Chris Conradie

PolyOak Packaging
Group (Pty) Ltd

We are excited to be receiving new PtSA leadership from the regions (except for KZN) from which will be drawn the national leadership. The new team is a blend of experience and youth and as management, we welcome the opportunity to share the burden of growing our sector with them. Plans are underway to start mobilisation of members and growing membership in KZN before the end of the year. We have made it policy that the regions will be the front end of our delivery as an association and that the regional EXCOs will be visible and provide tangible input into regional activities.

This issue of our newsletter has given significant columns space to our members and the great work that they are doing. Of note, we would want to invite the whole PtSA to join Jendamark in celebrating their award as **Africa's Technology Company of the Year**. That is no mean feat and congratulations are in order to Quinton and his team.

We continue to highlight that PtSA will be hosting the **16th ISTMA Conference accompanied by the All Africa Expo and the Invest in Africa Manufacturing Indaba**. We are happy to report that some of our members have already secured their booths and cannot wait for the exhibition to start. PtSA is reaching out to select African Manufacturing Associations to encourage their members to be part of this first and unique event. Tied to this is an initiative for PtSA, for the benefit of its members, to understand the dynamics of the emerging TDM sector on the continent. **Africa is full of opportunities especially as the trading under the Africa Continental Free trade Area begins**. Circumstances are quickly changing on the continent and we urge our members to consider setting up shop beyond our borders. Should the demand be there PtSA will organise missions to select markets for its members.



- Tapiwa (tapiwas@ptsa.co.za)

AAT Composites explains How PtSA Membership benefits the Company's Competitiveness

During the PtSA Western Cape Networking event on 22 September, Malte Scherner, Executive Manager at AAT Composites, which also sponsored the event, enhanced the benefits of being a member of PtSA to the company representatives who attended the event.

AAT Composites is a high-tech design and manufacturing company which develops advanced, light-weight composite products for the leading players in the aircraft interior and aircraft seating industry. All products manufactured are exported to customers overseas.

The company is reliant on importing aviation certified materials from its international supply chain and there are few suppliers available locally who are capable and willing to support AAT Composites' requirements.

Upon asking Malte why being a member of PtSA is important, he said "generally, one always needs an entry point, a motivation, a 'spark' to join a network of people – that individual reason making you think 'let's join' and be part of it. Think of joining a gym, a tennis or rotary club: what would motivate you to join these networks?"

For AAT Composites, the initial spark was the PtSA Benchmarking Programme, which delivers a professional benchmark analysis for its Tooling department at very attractive cost. The benchmarking was conducted in the timeframe of October 2021 to March 2022 and delivered a tangible result which AAT Composites can truly work with and brings its Tooling department to the next level."

"A membership, however, is not a 'once off', so what else does AAT Composites like to achieve within the PtSA membership?...

networking! AAT Composites would like to meet people from the industry, grow its network of contacts and potentially grow its local supply chain as a result. This will not just happen by being a member of PtSA, but the work must be done by the member. For example, just like a tennis club provides the courts you can play on; you still must go out and hit the ball yourself. But honestly, who else is better equipped doing that sweaty work than the member himself"

Jendamark Automation named African Technology Company of the Year!

Jendamark Automation, a PtSA Eastern Cape member, was recently awarded at Africa Tech Week in Cape Town for its technological achievements while showcasing opportunities for economic transformation in Africa. The Gqeberha-based company develops digitally enhanced component assembly systems for the global automotive sector.

Quinton Uren, MD and founder of Jendamark Automation, said he was delighted that the company's digital transformation journey had been recognised and rewarded. "I am incredibly proud of our young and dynamic team who have led the way," he said.

"Over the past few years, Jendamark has shifted rapidly from a historically automation-focused company in the manufacturing space into a diversified global tech leader.

"What remains unchanged, however, is our focus on understanding and meeting our customers' needs."

Jendamark's digital services director, Yanesh Naidoo, said the company's digital manufacturing technologies delivered an African-born, human-centric response to the demands of the Fourth Industrial Revolution.

It's time for Africa to shine

"We understand the challenges that many developing economies around the world are facing, and we must change the paradigm on how we use technology to solve these challenges."

Yanesh explained that, unlike more developed economies, where a shrinking workforce necessitated automation, Africa's strength was its human capital. "By digitalising manufacturing processes, we

can use tech to unlock human potential. We call it 'digital ubuntu' and believe it is the only way to bring more people into the economy and empower them to contribute to society."

Jendamark's ecosystem of digital productivity and efficiency solutions is marketed under the Odin Manufacturing brand and encompasses a range of factory functions from maintenance to quality assurance and real-time reporting on production data.

Juane Schutte, Odin Manufacturing Head said the win was further validation that Jendamark was solving the right

problems. "We are on a mission to accelerate digitalisation in small and medium factories in Africa at a low cost, allowing semi-skilled shop floor personnel to do much more advanced work. We see human-centric factories as massive opportunities in accelerating skills development and enhancing the economic impact in Africa."

Juane added that localised manufacturing, using digital tools for on-the-job training, was part of the solution to the unemployment crisis in SA.

The company has been actively involved in providing new technologies to several schools in the Nelson Mandela Bay area. Most recently, it provided seven schools with tablets and smartphone access to an online pilot programme which offers tutoring and support in mathematics.



Quinton Uren

Source: www.heraldlive.co.za (*Jendamark scoops title of African technology company of the year*)

New Industry Liaison Officer in Western Cape



Randall Felix has joined the PtSA Western Cape Centre of Excellence team as the new Industry Liaison Officer. He will be responsible for networking and handling all industry-related issues.

Randall started out as a Trainee Fitter and Turner in 1992 and completed an intensive training course for one year. His next job was with CFW Industries where he qualified as a Toolmaker. Randall spent nine years working for them programming using Mastercam and machining cast iron dies.

He moved to New Zealand where he worked for a company producing plastic injection moulds. After returning to South Africa, he worked at Shondale Manufacturing. "I received an opportunity to work for Mecad Systems as an Applications Engineer which is where I got Certified as a Mastercam and Solidworks Instructor. After two years with them I got a job as Technical Sales Engineer with TBM. I spent one and a half years selling engineering tooling and assisting companies with all their machining requirements from tools to advice on machining," Randall added.

DG Capital Turns 20!

Congratulations to PtSA member DG Capital for celebrating 20 years of doing business. DG Capital Incentives provide specialist advisory, funding and administration services to SA Businesses who participate in industry specific government incentive programmes.



A few members of the DG Capital team during the celebration with Peter van Ketz.

As part of the Company's 20th anniversary celebrations last week, DG Capital hosted a client breakfast. Peter Van Ketz, a motivational speaker, and professional adventurer, provided some food for thought.

The DG Capital team agreed that Peter's address resonated with them, as the 20-year "adventure" has also required them to have a clear vision and flexible strategy, surround themselves with the best possible team and partners, have courage, decisiveness and rely on a bit of luck, to stay innovative and to always having a winning attitude!

MANAGEMENT DEVELOPMENT

Effective Management Establishes Improved Work-Force

During the past two years companies faced among others, National Lockdown and employees working from home; and it is now time to re-evaluate the current business structure and competitiveness within the TDM and special machining industry.

In its list of members, PtSA has a variety of companies offering special and sometimes unique services to industry. The organisation aims to connect companies within the TDM and special machining industry to improve profits and be successful.

Antoinette Badenhorst, Director at PtSA member ABM Productivity Consultants, stressed that in the world of work currently there are so many demands on management to handle; and therefore managers and supervisors, need to be able to use interpersonal skills to pull the work teams together for effectively achieving benchmarks critical for the company.

"Using interpersonal skills to unlock the potential of each team member to the benefit of the group is one of the most rewarding achievements of management," Antoinette adds.

ABM follows a simple integrated approach that involves the active engagement of management and employees on various levels to identify constraints and development strategies that assist the organisation to overcome these constraints in the pursuit of world class competitiveness.

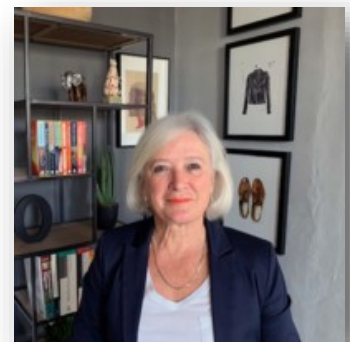
These key strategies are translated into meaningful

practical productivity and competitiveness improvement interventions and good manufacturing practices that can be implemented throughout the organisation i.e., implementing an integrated Quality Management System or empowering the different management levels to drive the improvement process, enabling their teams to become champions for change and achieve strategic goals.

Antoinette emphasised the importance of implementing interpersonal skills to manage high performance teams.

"The purpose of the programme is to equip different individuals in management to use a variety of behaviour skills in leading or managing teams. Maturity and skills levels of the team members must be taken in consideration and our team of specialists encourage appropriate styles of leadership and management," she says.

For the past 30 years ABM Productivity Consultants has helped companies to adapt by, amongst many others, analysing and organising relevant information about trends in the ever-changing work environment that will influence managing teams and achieving their companies' business targets.



Antoinette Badenhorst

PtSA Part Qualification Courses to IMPROVE Competitiveness

PtSA is proud to announce the launch of four SAQA registered part qualification courses which will be available at its four Centres of Excellence in South Africa!

These courses are:

- CNC Milling Machinist
- CNC Turning Machinist
- EDM Wire Operator
- EDM Plunge Operator

Industry will be served by qualified machinists with improved skills and competencies contributing to the competitiveness of South Africa's manufacturing sector and addressing some Industry 4.0 requirements. The purpose of the qualifications is to prepare a student to operate in either one of the above-mentioned trades.

Who can apply?

The range of students doing these courses are people who would like to gain access to employment in the Tool, Die, Mouldmaking and Special Machining industries, those with a specific interest in manufacturing and the production of tooling and those who want to upgrade their knowledge and skills. Each part qualification course includes Knowledge Modules, Practical Modules and Work Experience Modules in its curriculum.

Entry requirements

- NQF Level 4 with Mathematics and Science, or
- N3 Engineering studies with Mathematics and Engineering Science

Each of the courses are modular and competency-based (not time-based). Please contact the Centre Administrators as indicated below to find out about the duration of each course as well as the Recognition of Prior Learning (RPL) and/or qualifications to achieve the competency level required. Depending on the presentation of the various modules, an individual can select to do the various Knowledge and Practical modules as individual short courses. Certification, however, can only be achieved once all the modules as well as the Work Experience modules together with the Integrated External Assessment are successfully completed.

For information, contact:

Gauteng Centre of Excellence - Tel: (012) 760 0300 ext 502 / Email: leratomo@ptsa.co.za
Western Cape Centre of Excellence - Tel: (012) 760 0300 ext 302 / Email: staceyanns@ptsa.co.za
Eastern Cape Centre of Excellence - Tel: (012) 760 0300 ext 402 / Email: vivians@ptsa.co.za
KwaZulu-Natal Centre of Excellence - Tel: (012) 760 0300 ext 602 / Email: ellym@ptsa.co.za

There is No Limit with 3D Printing

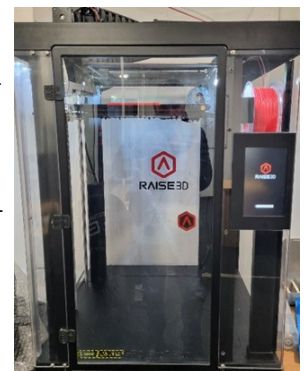
In the beginning of this year, one of PtSA's newest members, the Engineering Hub Precision Engineering Department in Gqeberha (Eastern Cape), acquired the Raise 3D Printer, to extend their 3D printing services.

Duane Kritzinger Head of Precision Engineering at the Hub said "We are super excited to be heading into a new direction of possibilities with this machine after slowly getting into the 3D printing sphere over the last couple of months. The machine provides a lot more versatility with it being able to print with dual nozzles and a much larger printing capacity, and with a high degree of accuracy. We are now able to print parts to maximum build volume of 305mm x 305mm x 600mm which is really quite big for printers in this segment."

The machine has already been printing every day since it arrived showing the trend of growth in the 3D printing scene over the last couple of years and will certainly be a major asset to the Hub in the future when it comes to prototyping and manufacturing of intricate parts. "We have been using the machine extensively for new project prototyping and an array of new components otherwise impossible to machine conventionally in a machine shop. This has helped us

to see if machining is in fact possible or feasible. The process has also helped to cut down on downtime and scrap in the machine shop as we are able to 3D print actual parts before manufacture and ascertain where improvements can be done or where mistakes are to be avoided," Duane added. With 3d printing, the limit of possibilities to create parts is just about endless especially with the various types of material that can be printed with. Gone are the days of just printing with single types of materials; there are currently various options such as Nylon, PLA, ABS, PETG, PVA, Wood filament and much more.

"We are hoping to secure a metal 3D printing machine in the not-too-distant future which will be the next step in our engineering evolution as a company with our status quo being not just happy with staying relevant and embracing new technologies as a company but pushing the boundaries of what is possible in engineering. 3D printing has catapulted us to the next phase of engineering excellence," Duane concluded.



Improving Grinding Operations smoothly and accurately

Robbie Deyzel CNC (Pty) Ltd, an Eastern Cape-based PtSA member, has been looking for an improvement in the company's grinding service delivery solutions for a while, and has recently acquired the HDCNC WEIHAI Huadong Surface Grinding machine with PLC auto grinding control.

Loftie Deyzel, Director at the Company, explained that **Robbie Deyzel CNC (Pty) Ltd** continuously seek ways to optimise and improve its services without compromising on the quality of workmanship. "The UADONG surface grinding machine is known for its auto cross feed, hydraulic feed and automatic feed with a 635mm worktable length and 305mm in width. It is easy to operate and designed for continuous operation at maximum speed, accuracy and minimal heat accumulation which ensure the best machining results".



The team at the company agree that one of the prominent advantages of this grinding machine is the fact that it is very quiet during operation. The company can also now produce heavy parts, as this machine offers adjustable roughing, finishing, and spark-out strokes with hydraulic longitudinal table movements and are designed for high table load capacity.

S4 Integration Teams up at Ford Plant in Eastern Cape



S4 Integration, a member of PtSA, worked with Ford South Africa on their new engine manufacturing and testing facility in Gqeberha.

The plant in Struandale is the only facility of its kind in the Ford world that produces V-configuration and in-line engines on the same line.

PtSA Western Cape Networking

At the Networking event on 22 September, Gary Longshaw, MD at Intratech, presented his company's solutions to Integrated tool design techniques with Catia Connected Engineering.



From left are Pieter Lategan, Gary Longshaw and Johan van Rooyen.



Lasni Millar (left) and Gernot Liebentritt.



What's Happening in Class?

The Western Cape TDM Powered Toolmaker Apprenticeship Programme students from the 2021 intake recently started CNC simulation Theory classes and are enjoying the subject tremendously!

Updated Membership Certificates for Eastern Cape



Gideon Smith (S4 Integration) received his company's membership certificate from Bronwyn Daniels, the PtSA Industry Liaison Officer in Eastern Cape.



Maynard Gesha from TK Manufacturing received his membership certificate from Bronwyn.

PtSA Gauteng Network Evening

In August, PtSA Gauteng elected the region's new Executive Committee and at the networking event afterwards, members received their updated membership certificates.

Bevan Davis (Conver-Tek), Regional Chair Gauteng handed **Gary Longshaw** (Intratech SA) their new membership certificate.



Bevan handed **Tapiwa Samanga** (Mtarazi Business Advisory Services) the company membership certificate.



Aurelio Grech-Cumbo (RGC Engineering) received his certificate from Bevan.



Clemence Nyasvimbo from Engiwave received his company's membership certificate from Bevan.



Bevan received his company's membership certificate from Bob Williamson.

BLACK INDUSTRIALISTS AND EXPORTERS CONFERENCE

South African President Cyril Ramaphosa opened the conference at the Sandton Convention Centre. More than 650 Black Industrialists (BIs) attended the event to, amongst other things, reflect on achievements of the BI programme and explore opportunities aimed at boosting entry of black-owned businesses and producers into the mainstream economy.

The attendees were drawn from cross-sections of the South African economy including food and beverages, furniture manufacturing, chemical production, cosmetics and healthcare products, steelmakers, mining companies and their industrial suppliers, clothing and textiles, filmmakers, tourism, innovation and technology. Delivering his keynote address to the conference, President Ramaphosa acknowledged the gains and contribution that black businesses were making towards economic growth and transformation. The President also acknowledged the shortcomings of the BI Programme saying government was committed to ensuring the success of black-owned business. Maynard Gesha from TK **Manufacturing**, a PtSA Member, represented his company at this event.



Medical Scheme

PtSA has worked closely with Momentum, a PtSA Partner, to reach an agreement which will offer PtSA members a Medical Scheme, depending on the income levels of the members' employees.

Ongoing Support by Momentum Consultants & Actuaries (MCA) to PtSA members

- MCA will assist with implementation (Employer as well as Employees)
- Member presentation sessions and/or one-on-ones will be arranged, and option selection will be based on the needs of each individual
- Application and activation process
- Ongoing support to Employer and Employees – Claims, Membership matters, hospital admission authorisations etc.) via a dedicated Consultant and MCA Helpdesk available (telephone line 0861 and Email / dedicated Email address)

PtSA / Momentum Medical Scheme offers 5 products

PRODUCT	CATEGORY	MONTHLY COST	BENEFITS
Health4Me	Medical Insurance	R294 Main Member R294 Adult Dependent R148 Per Child (max 4)	<ul style="list-style-type: none"> · GP visits to a network of GPs · Day-to-day benefits through a network of private doctors and specialists
Ingwe Network	Medical Aid	From R940 (main member)	<ul style="list-style-type: none"> · Hospital Cover at private hospital (Network list) · Chronic Cover (27 PMB* Conditions) · Day-to-day benefits only at network providers (GP, limited specialist, medication, basic radiology & pathology, basic dentistry and optometry) · Add HealthSaver (Savings Account) for additional day-to-day expenses
Evolve	Medical Aid (Excludes Chronic)	R1 345	<ul style="list-style-type: none"> · Hospital Cover at private hospital (Network list) · Add HealthSaver (Savings Account) for day-to-day expenses
Custom	Medical Aid	From R1 706 (Based on Members' choice)	<ul style="list-style-type: none"> · Hospital Cover at private hospital (any hospital or Associated Network list) · Chronic Cover (27 PMB* Conditions) · Add HealthSaver (Savings Account) for day-to-day expenses
Incentive	Medical Aid	From R2 224 (Based on Members' choice) (Includes 10% for Medical Savings)	<ul style="list-style-type: none"> · Hospital Cover at private hospital (any hospital or Associated Network list) · Chronic Cover (27 PMB* Conditions + additional 6 Conditions) · Day-to-day expenses paid from Medical Scheme Savings Account (10% of contribution) · Add HealthSaver (Savings Account) for additional day-to-day expenses

* Prescribed Minimum Benefits

Benefits of the PtSA / Momentum Medical Scheme:

- PtSA members will enjoy the benefit of being grouped and receive focussed attention;
- Dedicated contact assistance from Momentum Help Desk for PtSA members;
- PtSA will ensure that members are supported by Momentum;
- Possibility of no waiting periods for PtSA members when joining the Medical Scheme, dependent on negotiations.

Contact PtSA Office to set up a meeting with MCA (hettief@ptsa.co.za)

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.

Contact details for Regional Managers:

Theo van Rooyen (Eastern Cape):	theovr@ptsa.co.za
Francois Beetge (Gauteng):	francoisb@ptsa.co.za
Richard Kannigan (KwaZulu-Natal):	richardk@ptsa.co.za
André Davies (Western Cape):	andred@ptsa.co.za

Contact details for PtSA News:

Liza du Plessis (PtSA News: Editor)	lizadp@ptsa.co.za
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Do you want to **Advertise** your product or services to the Tooling Sector?



- PtSA is offering the opportunity to advertise in the PtSA News (Newsletter of the Production Technologies Association of South Africa)
- 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 for details, or to book an advert!