



### Letter from the MD

*It is with great pleasure that we introduce the first edition of the Gammatec newsletter. Over the last 25 years, Gammatec has successfully introduced a wide range of products and services to you and now with the digital age, we can continue to do so more efficiently and effectively than ever before.*

*On behalf of myself, the Board of Directors, and staff of the company, we would like to thank you for your support over the years and we look forward to furthering our relationship in the years to come.*

**R. M. Davies**

Managing Director – Gammatec Engineering (Pty) Ltd.

### Gammatec Middle East General Trading LLC

As we push through the summer we can tell you that it is not only the mercury that is rising, but also the activity in NDT in the entire GCC Region.

As a result of this Gammatec Middle East has had to recruit new staff members into our UAE team. We would like to take this opportunity to introduce & welcome Mr. Ravi Kumar (UAE Sales) and Mr. Mohd. Shajahan "Shaji" (Store Controller)!

In anticipation of the business explosion that is happening in Doha, Qatar, Gammatec Middle East is proud to announce that we have awarded an Exclusive Distributor's Agency to Qatar Fabrication & Welding Supplies. We are very excited about this move and we are sure that this will be extremely beneficial to all of our existing clients in Doha and surrounding areas. We are on track to go live in Doha at the end of July 2006 with our initial stocks arriving by the 3rd week in July. Q-Fab (part of Petroleum Technologies) is headed up by Mr. Surender Ahlawat, who leads a highly motivated sales team that will be more than willing to see to all of your requirements.

Gammatec Middle East is also excited to confirm the Exclusive Distribution rights of Sonatest PLC Products in the UAE, State of Qatar, and the Sultanate of Oman. Under this banner we are able to provide all Sonatest Ultrasonic Digital Flaw Detectors & Accessories. We eagerly await the arrival of the new DFD's. Demonstrations will be arranged with all our valued clients so show off this latest technology.

### HOT TOPICS

**Phased Array** – With this being the new buzzword in NDT – Gammatec have dedicated ourselves to the Harfang X-32 Phased Array unit. Heading up the division is Quintin Bower and you can contact our office at [info@gammatecme.com](mailto:info@gammatecme.com) to arrange for a demonstration.

**X-Ray** - Balteau is back with resounding success with recent sales to some of the major players in the UAE & Qatar.

**Thickness Gauges** – Dakota Gauges are here and many of our clients are very impressed with the ruggedness and simplicity of these units. With demonstration units of all the various ranges available don't hesitate to contact us for a demo!

I would like to take this opportunity, on behalf of the Gammatec Middle East Team, to thank all of our Valued Clients for their continued support – this support has really allowed Gammatec Middle East to cement our foundations in the UAE and from here we can only continue to progress as a leader in the NDT Equipment Supply Market!

Gareth Venter  
General Manager – Gammatec Middle East Gen. Trdg. L.L.C.

### Introduction to Non Destructive Testing

**The Quality Hierarchy.**

**Quality Assurance** – A management tool that companies apply to their operations to meet international standards.

**Quality Control** – A tool of Quality Assurance. Actions required by qualified individuals to measure the quality standards required by the client.

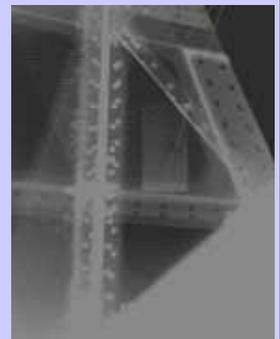
**Non Destructive Testing** – A tool of Quality Control. Specific methods of testing components, carried out by skilled personnel, to ensure that Code requirements are met.

From the simple tapping of a steel wheel on a railway coach to today's most sophisticated phased array systems, Non Destructive Testing has been around for a long time. And what a critical tool it is! Without it the Space Shuttle could not launch, power stations could not generate and your cell phone would not work.

Ever more specialised methods of engineering and construction require sophisticated inspection techniques. Even the most mundane procedures, such as gamma radiography of butt welds, are getting a facelift with equipment like the new Kodak Industrex ACR-2000i Digital System – available from Gammatec.

Advances in Industrial Radiography sources, specifically the use of Se.75 and specialised shielding techniques, allow normal production to continue within one or two meters of a 70Ci source, saving thousands of man-hours in lost production.

Whether you're designing and building the equipment, selling it with back-up service or using it in the field, the NDT business is an exciting place to be. Are you in it?



### Gammatec South Africa



**Back Row:** Wayne Henrico, Clive Ackerman, Quintin Bower, Philip Kilfoil, Raj Jairaj, Mr. N Davies, Ralph Davies, Karen Paulin, Eddie Hlongwane, Charles Maile.  
**Middle Row (Up/Down):** Carol Phipson, Henk Schoeman, Sharon Marshall, James Poutney, Luis Malhou, Mark Du Plessis, Sue Downie, Maria Matlobo, Bronwyn Jacobs, Vivian Kritzinger, Ann Kleyhans, Stefan Pieterse.  
**Front Row:** Gladys Khathaiso, Louisa Windvogel, Monica Oosthuizen, Marco Gonzalez, Mrs. Daives, Margaret McKimmie, Ann Haines, Gerard Haremse.  
**Insert:** Top left - William Mosia, Bottom Left - Michael Mankhoenyane, Bottom Right - Philip Mphaka

### Gammatec Middle East



**L-R:** Wayne Gadd, Ravi Kumar, Gareth Venter, Biju Kurian.  
**Seated:** Christa Venter.  
**Insert:** Mohammed Shajahan



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### *Mobi-Calc*

(Mobile Phone - Radiographic Exposure Calculator)

We are proud to announce the launch (July 2006) of our New and a **World First NDT mobile phone application!**

The **Mobi-Calc** software is a versatile tool for all radiographers which is an economical, simple and easy to use program and is compatible with all Mobile Phones!

The other additional feature of the **Mobi-Calc** software are as follows:

- Film Density reports indicating exposures for 7 densities at the same time
- Advanced time adjust to give perfect results each time.
- Radiation Safety and information Guide.
- Inverse Square Law calculations.
- Ir-192 Decay calculator
- ANSI Pipe Schedules
- Inch Converter
- Quick type entry tool.



Our **Mobi-Calc** mobile phone software takes up very little space (67 Kb) on your mobile, and can be saved to either your SIM card or Phone memory.

### *Transport of Radioactive Sources*

Radioactivity!! It's all around us. We are bombarded by different forms of radiation every day of our lives and, seemingly, are blissfully unaware of this fact. Mention to an airline passenger that a radioactive source is being transported on the same aircraft and they become jittery as if, suddenly, their lives are in mortal danger. Never mind the fact that they are being subjected to high levels of solar radiation during their flight.

Ionising radiation is probably one of the most researched and yet least understood phenomena of our time. Radiation is dangerous but, like any dangerous substance, if it is handled correctly and treated with respect the danger is contained and the huge value to human life can be exploited. Radiation, in all its forms, is playing and will continue to play a vital role in human development.

Very strict laws cover the production, transportation, and use of radioactive sources. Thousands crisscross our planet every year. Due to the short half-lives of many isotopes (sometimes only hours) the major mode of transport is airfreight with the vast majority being transported in the holds of passenger aircraft. It is therefore necessary to safeguard firstly the ground staff handling the radioactive packages and secondly the passengers who will be exposed to the radiation during the course of their flight.

The International Air Travel Association (IATA) has developed exacting regulations for the transport of radioactive materials – designed to protect the public and enhance the perception that radiation can be used in a safe manner. Yet there are those, through greed or ignorance that circumvent the regulations and undermine the efforts of responsible shippers.

Gammatec receives and dispatches hundreds of radioactive shipments every year and we are committed to the employment of the IATA regulations in all our business dealings. We urge all our clients to ensure that your staff is properly trained and aware of the regulations.

Please approach us at any time for advice on documentation and shipping as glaring errors and mis-declarations cannot be tolerated.

### *Gammatec Head Office. Vereeniging, Gauteng, RSA.*



### *Conferences & Exhibitions*

Gammatec and/ or our Supplier Partners will be attending the following conferences and exhibitions.

- **Pipeline Rehabilitation & Maintenance Conference and Exhibition.**  
*Istanbul, Turkey.*  
11-15 September 2006.  
[www.pipeline-rehab.com](http://www.pipeline-rehab.com)
- **European Conference for NDT in Berlin.**  
*Berlin, Germany.*  
25-29 September 2006.  
<http://www.ecndt2006.info/>
- **14<sup>th</sup> Annual Kazakhstan International Oil & Gas Exhibition & Conference KIOGE.**  
*Almaty, Kazakhstan.*  
3-6 October 2006.  
[www.kioge.com](http://www.kioge.com)



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[www.gammatecsa.com](http://www.gammatecsa.com)

\* Africa & Middle East.