

## Senarai Penerbitan *List of Publications*

## SENARAI PENERBITAN.....LIST OF PUBLICATIONS

### BUKU / BOOKS

Aziz Nather, **Norimah Yusof** and Nazly Hilmy, Allograft procurement, processing and transplantation – a comprehensive guide for tissue banks. World Scientific Singapore. 2010.

### TESIS/THESIS

**Jamilah Karim**, Penyediaan dan pencarian nano komposit polivinil klorida (PVC)-50% getah asli terepoksida (ENR50) berpengisian silica. Tesis Sarjana Sains, Universiti Kebangsaan Malaysia, 2010.

**Kamarudin Samuding**, Enhancement of natural local soil to minimize the migration of contaminants using empty fruit bunch (EFB) in Taiping landfill. Tesis PhD, Universiti Sains Malaysia, 2010.

**Wee Boon Siong**, Howardites and polymict eucrites: implications for bombardment in the early solar system. Tesis PhD, Tokyo Metropolitan Universiti, Japan, 2010.

**Zalina Laili**, Penyingkiran Ra-226 daripada larutan akueus dan air sisa melalui kaedah penjerapan menggunakan sabut kelapa dan asid humik. Tesis Sarjana Sains, Universiti Kebangsaan Malaysia, 2010.

**Zal U'yun Wan Mahmood**, Geokronologi sedimen dengan menggunakan siri pereputan uranium-thorium sebagai penunjuk pencemaran di persekitaran marin. Tesis PhD, Universiti Kebangsaan Malaysia, 2010.

### BAB DALAM BUKU / CHAPTERS IN BOOKS

Nazly Hilmy and **Norimah Yusof**, Environmental Management: Control and Safety. Book Chapter - Nather A., **Yusof N.** and Hilmy N. (eds.), Allograft procurement, processing and transplantation—a comprehensive guide for tissue banks. World Scientific Singapore, 479-488, 2010.

**Norimah Yusof** and Awang Hazmi A Junaidi, Interaction of radiation with tissues. Book Chapter - Nather A., **Yusof N.** and Hilmy N. (eds.), Allograft procurement, processing and transplantation—a comprehensive guide for tissue banks. World Scientific Singapore, 455-466, 2010.

**Norimah Yusof** and Nazly Hilmy, Establishing radiation dose for sterilisation of tissue allografts: 25 kGy and lower. Book Chapter - Nather A., **Yusof N.** and Hilmy N. (eds.), Allograft procurement, processing and transplantation – a comprehensive guide for tissue banks. World Scientific Singapore, 401-418, 2010.

**Norimah Yusof** and Nazly Hilmy, Principle concepts of radiation sterilisation. Book Chapter - Nather A., **Yusof N.** and Hilmy N. (eds.), Allograft procurement, processing and transplantation – a comprehensive guide for tissue banks. World Scientific Singapore, 371-383, 2010.

**Norimah Yusof** and **Noriah Mod Ali**, Good radiation practices for sterilisation of allografts. Book Chapter - Nather A., **Yusof N.** and Hilmy N. (eds.), Allograft procurement, processing and transplantation – a comprehensive guide for tissue banks. World Scientific Singapore, 385-400, 2010.

**Norimah Yusof**, Asnah Hassan and Nazly Hilmy, Bioburden estimation in tissue banking. Book Chapter - Nather A., **Yusof N.** and Hilmy N. (eds.), Allograft procurement, processing and transplantation – a comprehensive guide for tissue banks. World Scientific Singapore, 419-433, 2010.

**Zal U'yun Wan Mahmood** and Che Abd. Rahim Mohamed, Radionuclides in the environment. John Wiley & Sons, Ltd. Edition Thorium, May 2010, ISBN-13: 978-0-470-71434-8.

## JURNAL KEBANGSAAN / NATIONAL JOURNALS

**Izhar Abu Hussin, Zarina Masood, Mohammad Suhaimi Kassim and Mohd Puad Abu**, Design approach of a digital and computerize instrumentation and control system for the PUSPATI TRIGA MARK II reactor console: studies and overview. *Journal of Nuclear and Related Technologies*, Special Edition. 2010.

**Khairul Anuar Mohd Salleh**, Wan Muhamad Saridan Wan Hassan and **Ab. Razak Hamzah**, Resolution and noise properties of CMOS and CR digital radiography systems. *Jurnal Teknologi*, **52**: 103-115, Mei 2010.

**M. Omar, Z. Laili and M. S. Hamzah**, Judgement on the presence of radionuclides in sample analysis. *Jurnal Sains Nuklear Malaysia*, **22(2)**, 2010.

**M. Omar, Z. Laili, A. K. Wood, J. A. Karim, Z. Masood, M. F. Zakaria and M. F. Saad**, A systematic approach in gamma spectrometric determination of radionuclides in coolant of PUSPATI TRIGA Reactor. *Jurnal Sains Nuklear Malaysia*, **22(2)**, 2010.

**M. Omar, Z. Laili, N. M. N. Ibrahim and M. B. Mahusin** Radionuclide content of wastewater and solid waste from a low-level effluent treatment plant. *Jurnal Sains Nuklear Malaysia*, **22(1)**: 64–73, 2010.

**M. S. Meor Yusoff, Masliana Muslimin and Wilfred Paulus**, Effect of fractional precipitation on quality of nanostructured alumina produced from black aluminium dross waste. *Advanced Materials Research*, **73(2011)**: 36-39, 2010.

**Mohamad Hairie Rabir and Julia Abdul Karim**, Study of efficiency calibrations of HPGe detectors for aurum. *Jurnal Sains Nuklear Malaysia*, **22(1)**: 58-63, Jun 2010.

**Mohd Fazli Zakaria, Tonny Anak Lanyau and Mohammad Suhaimi Kassim**, Commissioning of PUSPATI TRIGA Reactor primary cooling system and lessons learnt.

N. K. Othman, **N. Othman**, J. Zhang and D. J. Young, Kesan wap air terhadap pengoksidaan berkitar pada aloi Fe-Cr. *Sains Malaysiana*, **39(2)**: 249–259, 2010.

**R. Tukimin**, W. N. L Mahadi and N. A. Azizan, Exposure assessment of EMF at 275kV transmission lines: A study at residential areas in Malaysia.

**Siti A'iasah Hashim, Khairul Zaman Hj. Dahlan, C. S. Wong and Mhd Radzi Abas**, Discharge based processing system for nitric oxide remediation. *Sains Malaysiana*, **39(6)**: 981-987, 2010.

**Siti Salwa Zainal Abidin, Ng Inn Khuan, Kok Kuan Ying and Choo Thye Foo**, Solid-Liquid-Solid (SLS) growth of silicon nanowires.

**Siti Salwa Zainal Abidin, Ng Inn Khuan, Kok Kuan Ying and Choo Thye Foo**, Vapor-Liquid-Solid (VLS) growth of silicon nanowires.

**Suhairy Sani**, Mohd Hanif Md. Saad, **Mohamad Pauzi Ismail**, Marzuki Mustafa, **Amry Amin Abas**, Pencirian isyarat ultrasonik kecacatan logam terkimpal masa-nyata. *NDT Spectra*, **4**: 50-54, 2010.

**Yii Mei-Wo, Zal Uyun Wan Mahmood, Jalal Sharib, and Zaharudin Ahmad**, Comparison of 210Pb level in Kuala Muda tsunami affected marine sediment core measured using two different techniques. *Jurnal Sains Nuklear Malaysia*, **22(1)**: 23-33.

**Zainon Othman**, Saphwan Al-Assaf and Osman Hassan, Molecular characterization of sago starch using gel permeation chromatography multi-angle laser light scattering. *Sains Malaysiana*, **39(6)**: 969-973, 2010.

**Zal U'yun Wan Mahmood, Che Abd Rahim Mohamed, Nita Salina Abu Bakar, Kamaruzzaman Ishak, Zaharudin Ahmad and Abdul Kadir Ishak**, Perhubungan antara 210Po, 210Pb, 226Ra dan parameter sedimentologi di pesisir pantai perairan pantai timur Semenanjung Malaysia, Sarawak dan Sabah. *Malaysian Journal Analytical Sciences*, 2010.

**Zal U'yun Wan Mahmood, Zaharudin Ahmad** and Che Abd. Rahim Mohamed, Kepekatan Mn dan Fe dalam teras sedimen di perairan Sarawak dan Sabah. *Sains Malaysiana*, **39(1)**: 13-20, 2010.

**Zal U'yun Wan Mahmood, Zaharudin Ahmad, Che Abd Rahim Mohamed, Norfaizal Mohammed, Nurrul Assyikeen Md. Jaffary, Nita Salina Abu Bakar** and **Abdul Kadir Ishak**, Assessment of metal pollutants in sediment core of the Sabah-Sarawak coastal waters. *Jurnal Sains Nuklear Malaysia*, **22(2)**, 2010

**Zalina Laili, Muhamad Samudi Yasir, Muhamat Omar, Mohd Zaidi Ibrahim** dan **Esther Philip**, Influence of humic acids on radium adsorption by coir pith in aqueous solution. *Sains Malaysiana*, **39(1)**: 99 -106, 2010.

**Zalina Laili, Muhamat Omar, Muhamad Samudi Yasir** and **Mohd Zaidi Ibrahim**, Determination of point of zero charge and adsorption of radium ions by coir pith in aqueous solution. *Jurnal Sains Nuklear Malaysia*, **22(1)**: 13-22, 2010.

#### JURNAL ANTARABANGSA/INTERNATIONAL JOURNAL

A. P. K. Ling, J. X. C. Ong, **S. Hussein**, and **A. R. Harun**, Morphological and physiological responses of *Orthosiphon stamineus* callus to gamma irradiation at different doses. *African Journal of Biotechnology*, **6(1)**: 58-66, 2010.

**Chantara Thevy Ratnam**, David J. T. Hill, Firas Rasoul, Andrew K. Whittaker and Imelda Keen, Surface Plasma Modification of LLDPE for Biomedical Applications. *Polymer-plastics Technology and Engineering*, **49(1)**: 1-7, 2010.

**Chantara Thevy Ratnam**, Radin Siti Fazlina and Shuhaily Shamsuddin, Mechanical Properties of rubber-wood fiber filled PVC/ENR blend. *Malaysian Polymer Journal*, **5(1)**: 17-25, 2010.

E. L. Chong, Ishak Ahmad, **H. M. Dahlan** and Ibrahim Abdullah, Reinforcement of natural rubber/high density polyethylene blend with electron beam irradiated liquid natural rubber – coated rice husk. *Radiation Physics and Chemistry*, **79**: 906–911, 2010.

**Ilham Zainal Abidin**, Gui Yun Tian, John Wilson, Suixian Yang and Darryl Almond Quantitative evaluation of angular defects by pulsed eddy current thermography. *NDT&E International*, **43**: 537–546, 2010.

J. Wilson, G. Y. Tian, **I. Z. Abidin**, Suixian Yang and D. Almond, Pulsed eddy current thermography: system development and evaluation. *Insight*, **52(2)**, 2010.

John Wilson, Gui Yun Tian, **Ilham Zainal Abidin**, Suixian Yang and Darryl Almond, Modelling and evaluation of eddy current stimulated thermography. *Non-destructive Testing and Evaluation*, **25(3)**: 205–218, 2010.

K. Rezaee, E. B. Saion, **A. Khalik Wood** and M. R. Abdi, Rare earth elements determination and distribution patterns in surface marine sediments of the South China Sea by INAA, Malaysia. *Journal Radioanalytical and Nuclear Chemistry*, **283(3)**: 823 – 829, 2010.

**K. Y. Kok**, C. M. Hangarter, B. Goldsmith, **I. K. Ng, N. U. Saidin** and N. V. Myung, Synthesis and characterisation of Electrodeposited Permalloy ( $Ni_{80}Fe_{20}$ )/Cu Multilayered Nanowires, *Journal of Magnetism and Magnetic Materials*, **322 (24)**, 3876 – 3881, 2010.

**Kamarudin Samuding, Mohd Tadza Abdul Rahman**, Ismail Abustan, **Roslanzairi Mostapa, Lakam Mejus**, Application of Colloidal Borescope System (CBS) in monitoring groundwater movement. *American Journal of Environmental Science*.

**Kuan-Ying Kok**, Carlos M. Hangarter, Bryan Goldsmith, **Inn-Khuan Ng, Nur Ubaidah Saidin** and Nosang V. Myung, Template assisted growth and characterization of electrodeposited Permalloy ( $Ni_{80}Fe_{20}$ )/Cu multilayered nanowires. *Electrodeposition of Nanoengineered Materials and Devices* 3, **25(41)**: 97 – 103, 2010.

Mazlin Mokhtar, Laily Din, Ahmad Zaharin Aris, Chien Huey Queck, **Abdul Khalik Hj Wood, Suhaimi Hamzah, Shamsiah Ab Rahman** and **Eewiat Endin Put**, Determination of trace metals in lichens under different ecological conditions in Malaysia - urban proximity and pristine environment. *Journal Fresenius Environmental Bulletin*. **19(7)**: 1265–1274, 2010.

M. A. I. C. Zulkarnain, N. A. Rusdi, **M. R. Awang**, J. Seelan, N. Muslim, M. Mohamed and S. M. Yasir, Bioassays of bioactive compounds from *Calostoma insignis* Part I: Antimicrobial susceptibility test of crude polysaccharide extracts. *Food Chemistry Journal*, 2010.

M. A. Shafeei, E. Saion, **K. Wood**, M. K. Halimah, K. Rezaee, L. A. Mehdipure, Evolution of K-40 in fruit collected in Malaysia by the determination of total potassium using neutron activation analysis. *Journal Radioanalytical and Nuclear Chemistry*, **284**: 659–662, 2010.

M. F. Juhaida, M. T. Paridah, **M. Mohd. Hilmi**, Z. Sarani, H. Jalaluddin, A. R. Mohamad Zaki, Liquefaction of kenaf (*Hibiscus cannabinus L.*) core for wood laminating adhesive. *Bioresource Technology*, **101**: 1355–1360, 2010.

M. Khalid, A. F. Ismail, **C. T. Ratnam**, Y. Faridah, W. Rashmi and M. F. Al Khatib, Effect of radiation dose on the properties of natural rubber nanocomposite. *Radiation Physics and Chemistry Journal*, **79(12)**, 2010.

Mohammad Syaiful Bahari Abdull Rasad, Ahmad Sukari Halim, **Kamaruddin Hashim**, Ahmad Hazri Abdul Rashid, **Norimah Yusof** and Shaharum Shamsuddin, In vitro evaluation of novel chitosan derivatives sheet and paste cytocompatibility on human dermal fibroblasts. *Carbohydrate Polymers*, **79**: 1094–1100, 2010.

Mohammad Zhariff Abdul Hamid, Nor Azowa Ibrahim, Wan Md Zin Wan Yunus, **Khairul Zaman** and **Mohd Dahlan**, Effect of grafting on properties of oil palm empty fruit bunch fiber reinforced polycaprolactone biocomposites. *Journal of Reinforced Plastics and Composites*, **29(18)**: 2723–2731, 2010.

Mohammed Ahmed Ali, E. Saion, Awad A. Al-Zahrany, Y. Noorhana, K. **Mohd Dahlan**, A. Kassim, K. A. Rabae and **M. H. Hamzah**, Optical radio-chromic properties of polyaniline film irradiated with gamma radiation. *Journal of Engineering Science and Technology*, **5(2)**: 244–250, 2010.

**Mohd Amirul Syafiq Mohd Yunos**, Zainal Abidin Talib, Wan Mahmood Mat Yunus, **Meor Yusoff Meor Sulaiman**, Josephine Liew Ying Chyi and **Wilfred Sylvester Paulus**, X-ray diffraction analysis of thermally evaporated copper tin selenide thin films at different annealing temperature. *Journal of Materials Science and Engineering*, **4(12)**: 37, 2010.

N. K. Othman, A. Jalar, **N. Othman** and D. J. Young, Effects of lanthanum on Fe-25Cr alloys under cyclic oxidation. *Advanced Materials Research*, **97(101)**: 1212–1215, 2010.

**N. Mod Ali**, Reliability in individual monitoring service. *Radiation Protection Dosimetry*, **144(1-4)**: 90–94, 2010.

N. Z. Noriman, H. Ismail, **C. T. Ratnam** and A. A. Rashid, The effect of electron beam (EB) irradiation in presence of TMPTA on cure characteristics and mechanical properties of styrene butadiene rubber/recycled acrylonitrile-butadiene rubber (SBR/NBRr) blends. *Polymer-plastics Technology and Engineering*, **49**: 228–236, 2010.

Noraiham Mohamad, Andanastuti Muchtar, Mariyam Jameelah Ghazali, **Dahlan Hj. Mohd** and Che Husna Azhari, Epoxidized natural rubber-alumina nanoparticle composites: optimization of mixer parameters via response surface methodology. *Journal of Applied Polymer Science*, **115(1)**: 183–189, 2010.

Noraiham Mohamad, Andanastuti Muchtar, Mariyam Jameelah Ghazali, **Dahlan Hj. Mohd** and Che Husna Azhari, Correlation of filler loading and silane coupling agent on the physical characteristics of epoxidized natural rubber-alumina nanoparticles composites. *Journal of Elastomers and Plastics*, **42(4)**: 331–346, 2010.

**Rasif Mohd Zain**, Ruzairi Abdul Rahim, Mohd Hafiz Fazalul Rahiman and **Jaafar Abdullah**, Simulation of image fusion of dual modality (electrical capacitance and optical tomography) in solid/gas flow. *Sensing and Imaging: An International Journal*, **11(2)**: 33–50, 2010.

**Shamsiah Ab. Rahman, Mohd Suhaimi Hamzah, Abdul Khalik Wood, Md Suhaimi Elias, Nazaratul Ashifa Abdullah Salim and Ezwiza Sanuri**, Sources apportionment of fine and coarse aerosol in Klang Valley, Kuala Lumpur using positive matrix factorization. *Atmospheric Pollution Research*, **2**: 197-206, 2010.

Syafalni, I. Abustan, **M. Tadza Abdul Rahman**, Isotope technique ( $^{14}\text{C}$ ,  $^{131}\text{I}$ ) for safety analysis of domestic solid waste disposal site in Jakarta, Indonesia - A case study. *Modern Applied Science*, **4(3)**: 20-27, 2010.

W. A. W. A Rahman, **Naurah Mat Isa**, A. R. Rahmat, N. Adenan and R. R. Ali, Rice husk/high density polyethylene bio-composite: effect of rice husk filler size and composition on injection molding processability with respect to impact property. *Journal of Advance Materials Reseach*, **83-86**: 367-374, 2010.

**Zaharudin Ahmad, Yii Mei-Wo, Ahmad Sanadi Abu Bakar and Hidayah Shahar**, Spatial distributions of  $^{137}\text{Cs}$  and  $^{239+240}\text{Pu}$  in surface seawater within the exclusive economic zone of East Coast Peninsular Malaysia. *Applied Radiation and Isotopes*, **68(9)**: 1839-1845, 2010.

**Zaharudin Ahmad, Zal U'yun Wan Mahmood, Hidayah Sahar, Yii Mei Wo and Ahmad Sanadi Abu Bakar**, Radioactivity in the exclusive economic zone of east coast Peninsular Malaysia: Distribution trends of  $^{137}\text{Cs}$  in surface seawater. *Journal Radioanalytical and Nuclear Chemistry*, **287(1)**: 329-334, 2010.

**Zal U'yun Wan Mahmood**, Che Abd Rahim Mohamed, **Yii Mei Wo**, **Zaharudin Ahmad**, **Kamaruzzaman Ishak** and **Abdul Kadir Ishak**, Vertical inventories and fluxes of  $^{210}\text{Pb}$ ,  $^{228}\text{Ra}$  and  $^{226}\text{Ra}$  at southern South China Sea and Malacca Straits. *Journal Radioanalytical and Nuclear Chemistry*, **286(1)**: 107-113, 2010.

**Zal U'yun Wan Mahmood, Che Abd. Rahim Mohamed, Zaharudin Ahmad and Abdul Kadir Ishak**, Intercomparison of techniques for estimation of sedimentation rate in the Sabah and Sarawak coastal waters. *Journal Radioanalytical and Nuclear Chemistry*, **287(1)**: 255-260, 2010.

**Zal U'yun Wan Mahmood, Hidayah Shahar, Zaharudin Ahmad, Yii Mei Wo** and Ahmad Sanadi Abu Bakar, Behavior and distribution of  $^{239+240}\text{Pu}$  and  $^{241}\text{Am}$  in the east coast of Peninsular Malaysia marine environment. *Journal Radioanalytical and Nuclear Chemistry*, **286(1)**: 265-272, 2010.

**Zal U'yun Wan Mahmood, Zaharudin Ahmad, Mohd Izwan Abd. Aziz, Che Abd Rahim Mohamed and Abdul Kadir Ishak**, Radioactivity distribution of thorium in sediment core of the Sabah-Sarawak coast. *Journal Radioanalytical and Nuclear Chemistry*, **285(2)**: 365-372, 2010.

Zidan Mohamed M. Houmani, Amran Ab. Majid, Shahidan Radiman, **Zaharudin Ahmad**, Influence of the physico-chemical properties of Selangor soil series on the distribution coefficient (Kd-value) of  $^{226}\text{Ra}$ . *Journal Radioanalytical and Nuclear Chemistry*, **285(2)**: 271-277, 2010.

#### LAPORAN TEKNIKAL/TECHNICAL REPORT

**Ab. Razak Hamzah, Khairul Anuar Mohd Salleh, Noorhazleena Azaman, Sapizah Rahim and Shahrudin Sayuti**, Optimisation of digital industrial radiology (DIR) techniques for special applications and development of procedures and protocols. IAEA Research Coordination Meeting (RCM) of the Coordinated Research Project (CRP), 2010. MAL/TC/8/021.

**Abu Bakar Ghazali** and **Mohd. Zahidee Taat**, **Laporan hasil penilaian program pembangunan:** Projek pembangunan dan pembuatan mesin alur elektron (EBM) - R&D, Perolehan Teknologi dan Peralatan, Laporan Teknikal Nuklear Malaysia, Pusat Pembangunan Akselerator. NM/PPT/BST/ADC/TR10 (1).

**Abu Bakar Ghazali** and **Rosli Che Ros**, A circuit modification for x-y electron beam scanner. Laporan Teknikal Nuklear Malaysia, Pusat Pembangunan Akselerator. NM/PPT/BST/ADC/TR10 (3).

**Abu Bakar Ghazali**, Correction of electron beam position via external coils. Laporan Teknikal Nuklear Malaysia, Pusat Pembangunan Akselerator. NM/PPT/BST/ADC/TR10 (4).

**Abu Bakar Ghazali**, Laporan hasil penilaian program pembangunan: Projek pembangunan dan pembuatan mesin alur elektron (EBM) - R&D, Perolehan Teknologi dan Peralatan, Laporan Teknikal Nuklear Malaysia, Pusat Pembangunan Akselerator. NM/PPT/BST/ADC/TR10(2).

**Ahmad Hasnulhadi Che Kamaruddin**, Noraini Surip, **Faizal Azrin Abdul Razalim**, **Mohd Abd Wahab Yusof**, Azlikamil Napiah, Nurul Nadia Abdul Malek, Roziah Che Musa, **Nik Marzukee Nik Ibrahim**, **Thanaletchumy Karuppiah**, and **Nazran Harun**, Geological and Geographical Information System (GIS) suitability analysis for radioactive waste repository site in Negeri Sembilan.

Commissioning Report of PUSPATI TRIGA Reactor (RTP) Primary Cooling System. Reactor Operation and Maintenance Section, 2010. NUKLEAR MALAYSIA/L/2010/34.

**Ismail Sulaiman dan Faizal Azrin Abdul Razalim**, Pemantauan alam sekitar Agensi Nuklear Malaysia, 2009. NUKLEAR MALAYSIA/2009/87.

**Ismail Sulaiman, Faizal Azrin Abdul Razalim** and **Azmi Hassan**, Operational radiological and environmental monitoring report of Hunstman Tioxide (M) Sdn. Bhd., Kemaman, Terengganu (First Monitoring), 2010. UPP/2010/01/14/01.

**Ismail Sulaiman, Faizal Azrin Abdul Razalim** and **Azmi Hassan**, Operational radiological and environmental monitoring report of Hunstman Tioxide (M) Sdn. Bhd., Kemaman, Terengganu (Second Monitoring). 2010. UPP/2010/01/14/02.

**Ismail Sulaiman, Faizal Azrin Abdul Razalim** and **Azmi Hassan**, Operational radiological and environmental monitoring report of Hunstman Tioxide (M) Sdn. Bhd., Kemaman, Terengganu (Third Monitoring). 2010. UPP/2010/01/14/03.

**Ismail Sulaiman, Faizal Azrin Abdul Razalim** and **Azmi Hassan**, Operational radiological and environmental monitoring report of Hunstman Tioxide (M) Sdn. Bhd., Kemaman, Terengganu (Fourth Monitoring). 2010. UPP/2010/01/14/04.

**Ismail Sulaiman, Faizal Azrin Abdul Razalim** and **Azmi Hassan**, Operational radiological and environmental monitoring report of Hunstman Tioxide (M) Sdn. Bhd., Kemaman, Terengganu (Fifth Monitoring). 2010. UPP/2010/01/14/05.

**Ismail Sulaiman, Faizal Azrin Abdul Razalim** and **Azmi Hassan**, Operational radiological and environmental monitoring report of Endeka Ceramics (M) Sdn. Bhd., Senawang, Negeri Sembilan (First Monitoring). 2010. UPP/2010/03/14/01.

**Ismail Sulaiman, Faizal Azrin Abdul Razalim** and **Azmi Hassan**, Operational radiological and environmental monitoring report of Endeka Ceramics (M) Sdn. Bhd., Senawang, Negeri Sembilan (Second Monitoring). 2010. UPP/2010/03/14/02.

**Ismail Sulaiman, Faizal Azrin Abdul Razalim** and **Azmi Hassan**, Operational radiological and environmental monitoring report of Endeka Ceramics (M) Sdn. Bhd., Senawang, Negeri Sembilan (Third Monitoring). 2010. UPP/2010/03/14/03.

**Ismail Sulaiman, Faizal Azrin Abdul Razalim** and **Azmi Hassan**, Operational radiological and environmental monitoring report of Endeka Ceramics (M) Sdn. Bhd., Senawang, Negeri Sembilan (Fourth Monitoring). 2010. UPP/2010/03/14/04.

**Khaironie Mohamed Takip, Muhammad Khairul Ariff Mustafa** and **Ariff Shah Ismail**, Laporan tahunan Seksyen Pengurusan Kitaran Bahan Api. 2010.

**Lakam Mejus, Nurul Fairuz Diyana Baharudin, Kamaruzaman Mohamad@Mamat**, Kajian pengimejan keberintangan geoelektrik di Negeri Sembilan dan Melaka. NUKLEAR MALAYSIA/L/2010/8.

Laporan Tahunan Bahagian Kuasa Nuklear Tahun 2009. NUKLEAR MALAYSIA /L/2009/73.2.

Laporan tahunan kendalian dan penyenggaraan Reaktor TRIGA PUSPATI 2009. Seksyen Kendalian Dan Penyenggaraan Reaktor, Bahagian Kuasa Nuklear, 2010.

Laporan Techno-economic study: Upgrading of PUSPATI TRIGA Reactor Phase II. 2010. NUKLEAR MALAYSIA/L/2009/89.

**M. Omar**, A guidance to consider gamma-rays interference and emission probability selection in the determination of natural radionuclide concentration using gamma-spectrometry systems. Agensi Nuklear Malaysia, Bangi, Selangor, Selangor, NUKLEAR MALAYSIA/L/2010/50.

**M. Omar**, NORM processing in Malaysia: an overview. Agensi Nuklear Malaysia, Bangi, Selangor, Selangor, 2010. NUKLEAR MALAYSIA/L/2010/11.

**Md Suhaimi Elias, Ab Khalik Wood, Mohd Suhaimi Hamzah, Zaleha Hashim, Ariffin Talib, Eewiat Endin Put, Mohd Khairu Azhar Harun and Mohd Khushairi Awang**, Identification sources of petroleum hydrocarbons in marine environment of Sabah and Sarawak coastal area. NUKLEAR MALAYSIA/T/2010/2.

**Mohd Harun, Katrul Azuddin dan Zaiton Selamat**, Kajian kerosakan dandang Sandakan Edible Oil. 2010. NUKLEAR MALAYSIA/L/2010/35.

**Mohd Harun, Zaifol Shamsu, Norasiah Kasim, Mahdi Ezwan Mahmoud, Katrul Azuddin, Zaiton Selamat and Muhamad Jalil**, Damage analysis on S3-932 HP fire flare stack. 2010. NUKLEAR MALAYSIA/L/2010/5(S).

**Mohd Harun, Zaifol Shamsu, Norasiah Kasim, Mahdi Ezwan Mahmoud, Katrul Hisham Alauddin, Zaiton Selamat and Muhamad Jalil**, Failure analysis of heat exchanger tubes for propane gas refinery. 2010. NUKLEAR MALAYSIA/L/2010/13(S).

**Mohd Harun, Zaifol Shamsu, Norasiah Kasim, Mahdi Ezwan Mahmoud, Katrul Hisham Alauddin, Zaiton Selamat and Muhamad Jalil**, Failure analysis of broken motor shaft for air fin cooler. 2010. NUKLEAR MALAYSIA/L/2010/33(S).

**Mohd Harun, Zaifol Shamsu, Norasiah Kasim, Mahdi Ezwan Mahmoud, Katrul Hisham Alauddin, Zaiton Selamat and Muhamad Jalil**, Failure analysis of sense union thread tube. 2010. NUKLEAR MALAYSIA/L/2010/14(S).

**Mohd Harun, Zaifol Shamsu, Norasiah Kasim, Mahdi Ezwan Mahmoud, Katrul Hisham Alauddin, Zaiton Selamat and Muhamad Jalil**, Failure analysis of carbon steel chamber plate of an incinerator F5-0201. 2010. NUKLEAR MALAYSIA/L/2010/ 9(S).

**Mohd Harun, Zaifol Shamsu, Norasiah Kasim, Mr. Mahdi Ezwan Mahmoud, Katrul Hisham Alauddin, Zaiton Selamat and Muhamad Jalil**, Failure analysis of finned tubes for air cooler system. 2010. NUKLEAR MALAYSIA/L/2010/12(S).

**Muhammad Khairul Ariff Mustafa, Khaironie Mohamed Takip, Ariff Shah dan Mohamad Puad Abu**, Laporan bengkel pengenalan reaktor kepada pegawai-pegawai baru Agensi Nuklear Malaysia, 2010. NUKLEAR MALAYSIA/L/2010/62.

**Muhammad Suhaimi Kassim, Mohd Fairus Farid, Tonny Lanyau and Zaredah Hashim**, Laporan tahunan Seksyen Penilaian Teknologi, Kejuruteraan dan Keselamatan Reaktor. 2010.

**N. U. Saidin, K. Y. Kok, I. K. Ng and S. S. Zainal Abidin**, 2010. Electrochemical Processing of Nickel Nanowire. NUKLEAR MALAYSIA/T/2010/3.

**Nita Salina Abu Bakar, Ahmad Saat and Zal U'yun Wan Mahmood**, The potential use of mosses as bioindicators in detection of radioactive and trace metals contamination around a coal-fired power plant, 2010.

Noor Ezan Abdullah, **Nor Arymaswati Abdullah** and Siti Durrani Mohd Dom Arang Bilong, PRBS generator design using MATLAB and Simulink. Laporan Teknikal Pusat Instrumenasi dan Automasi.

Noor Ezan Abdullah, Nurul Adilla Mohd Subha, **Nor Arymaswati Abdullah**, Zarina Abd. Rashid, Siti Durrani Mohd Dom and Nadiah Ismail, Simulation of a diesel engine system for closed-loop air to fuel ratio (AFR) control using MRAC method. Laporan Teknikal Pusat Instrumenasi dan Automasi.

Noor Zarith Iffah Jasmani and **Nor Arymaswati Abdullah**, Operation transient response and stability of buck converter and boost converter with feed-forward control. Laporan Teknikal Pusat Instrumenasi dan Automasi.

**Nor Arymaswati Abdullah** and Noor Zarith Iffah Jasmani, Design of an on-line UPS system with high frequency transformer for isolation. Laporan Teknikal Pusat Instrumentasi dan Automasi.

**Nor Arymaswati Abdullah**, Nor Ezan Abdullah and Nadiah Ismail, The performance of water tank level control using fuzzy controller. Laporan Teknikal Pusat Instrumentasi dan Automasi.

**Nor Arymaswati Abdullah**, Nurul Adilla Subha, Nor Ezan Abdullah and Nadiah Ismail, Multi agent robot communication: radio frequency, bluetooth and zigbee technology. Laporan Teknikal Pusat Instrumentasi dan Automasi.

**Nor Arymaswati Abdullah**, Siti Durrani Mohd. Dom Arang Bilong, Zarina Abdul Rashid and Yasmin Abdul Wahab, Using slider as adder and subtractor in IDE68k. Laporan Teknikal Pusat Instrumentasi dan Automasi.

**Nor Pa'iza Mohamad Hasan, Noraishah Othman, Mior Ahmad Khusaini Adnan, Airwan Affandi Mahmood, Hearie Hassan and Mohd Ali Abd Rahman**, Flow rate measurement of cooling water system at Sultan Iskandar Power Station using radiotracer technique. Bahagian Teknologi Industri, 2010. NUKLEAR MALAYSIA/L/2010/11.

**Nor Pa'iza Mohamad Hasan, Noraishah Othman, Mior Ahmad Khusaini Adnan, Mohamad Rabaie Shari and Nurliyana Abdullah**, Radiotracer technique for flow rate measurement of cooling water system at Sultan Iskandar Power Station. Bahagian Teknologi Industri, 2010. NUKLEAR MALAYSIA/L/2010/45.

**Nor Pa'iza Mohamad Hasan, Noraishah Othman, Roslan Yahya, Mior Ahmad Khusaini Adnan and Noor Azlan Tumiran**, Cooling water flow measurement using radiotracer technique. Bahagian Teknologi Industri, 2010. NUKLEAR MALAYSIA/L/2010/21.

Nordini Surip, **Mohd Abd Wahab Yusof**, Azlikamil Napiah, **Ahmad Hasnulhadi Che Kamaruddin**, Nurul Nadia Abdul Malek, **Faizal Azrin Abdul Razalim**, **Nazran Harun**, and Roziah Che Musa, Geological and Geographical Information System (Gis) suitability analysis for radioactive waste repository site in Pahang, 2010.

**Norfaizal Mohamed, Nur Hidayah Dmuliandy Mohd Sidek, Nita Salina Abu Bakar, Zal U'yun Wan Mahmood, Hidayah Shahar, Zaharudin Ahmad, Yii Mei Woo, Nurul Assyikeen Md Jaffary and Khairul Nizam Razali**, Application of nuclear techniques to study bioaccumulation factor for marine biota. 2010. NUKLEAR MALAYSIA/L/2010/10.

**Norimah Yusof, Zaiton Ahmad, Affrida Abu Hassan, Shakinah Salleh and Shuhaimi Shamsudin**, Laporan teknikal 1: Kajian penghasilan jenis/varieti baru tanaman renek melalui kejuruteraan genetik. Jabatan Landskap Negara, 2010.

**Norimah Yusof, Zaiton Ahmad, Affrida Abu Hassan, Shakinah Salleh and Shuhaimi Shamsudin**, Laporan teknikal 2: Kajian penghasilan jenis/varieti baru tanaman renek melalui kejuruteraan genetik. Jabatan Landskap Negara, 2010.

**Rosli Darmawan**, Investigation of wall and skyshine effect using MCNP. Laporan Teknikal Nuklear Malaysia, 2010. NUKLEAR MALAYSIA/L/2010/48.

**Sarada Idris and Zulkifli Ghazali**, Product improvement and production scaling-up of flame retardant compounds (low smoke) for radiation crosslinkable automotive. MOSTI/BGM/ICDS/16(3).

**Siti Salwa Zainal Abidin, Ng Inn Khuan, Kok Kuan Ying, Choo Thye Foo and Nur Ubaidah Saidin**, Synthesis of silicon nanowires via self-selective electroless etching and galvanic displacement. NUKLEAR MALAYSIA/T/2010/5.

**Thanaletchumy Karuppiyah** dan **Nurul Wahida Ahmad Khairuddin**, Kajian kepuasan pelanggan perkhidmatan Pusat Pembangunan Teknologi Sisa (WasTeC), 2010, NUKLEAR MALAYSIA/L/2009/91.

**Wan Saffiey Wan Abdullah** and **Roha Tukimin**, Preliminary report Serene Kiara, Kuala Lumpur. 2010. UPP/BKS/NIR/2010(11).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Ahmad Fadzli Ahmad Sanusi, Musa Ibrahim and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements at Taman Mawar, Cheras. 2010. UPP/BKS/NIR/2010(20).

---

**Wan Saffiey Wan Abdullah, Roha Tukimin, Ahmad Fadzli Ahmad Sanusi, Mohd Azizi Mohd Jali and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements, Permodalan Nasional Berhad Building, Kuala Lumpur. 2010. UPP/BKS/NIR/2010(24).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Ahmad Fadzli Ahmad Sanusi, Mohd Azizi Mohd Jali and Mohd Hayyu Husain**, Report on radiofrequency and microwave radiation measurements around the telecommunication tower, Gunung Jerai Kedah. 2010. UPP/BKS/NIR/2010(25).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Ahmad Fadzli Ahmad Sanusi, Mohd Azizi Mohd Jali and Mohd Hayyu Husain**, Report on radiofrequency and microwave radiation survey around TUDM airbase in Butterworth, Penang. 2010. UPP/BKS/NIR/2010(26).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Mohd Azizi Mohd Jali, Ahmad Fadzli Ahmad Sanusi and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements, Complex Axis, Penang. 2010. UPP/BKS/NIR/2010(13).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Mohd Azizi Mohd Jali, Ahmad Fadzli Ahmad Sanusi and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements, Motorola technology buildings. 2010. UPP/BKS/NIR/2010(16).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Mohd Azizi Mohd Jali, Musa Ibrahim and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements at Jalan TK2/1C Taman Kinrara. 2010. UPP/BKS/NIR/2010(17).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Mohd Fazlie Abdul Rashid, Musa Ibrahim, Mohd Azizi Mohd Jali and Mohd Nazri Mat**, Report on radiofrequency and microwave radiation measurements, Pusat Perubatan Universiti Malaya, Kuala Lumpur. 2010. UPP/BKS/NIR/2010(12).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Mohd Fazlie Abdul Rashid, Musa Ibrahim, Mohd Azizi Mohd Jali, Ahmad Fadzli Ahmad Sanusi and Mohd Nazri Mat**, Report on extremely low frequency electromagnetic fields (ELF-EMF) study at No. 2, Jalan Serene Kiara 3, Serene Kiara, Kuala Lumpur. 2010. UPP/BKS/NIR/2010(14).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Mohd Hayyu Husain, Ahmad Fadzli Ahmad Sanusi and Mohd Azizi Mohd Jali**, Report on radiofrequency and microwave radiation measurements Motorola Cyberplex, Penang. 2010. UPP/BKS/NIR/2010(22).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Musa Ibrahim, Ahmad Fadzli Ahmad Sanusi and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements KL International Hotel. 2010. UPP/BKS/NIR/2010(23).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Musa Ibrahim, Mohd Azizi Mohd Jali and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements Indera Subang Condominium, Subang Jaya. 2010. UPP/BKS/NIR/2010(21).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Musa Ibrahim, Mohd Azizi Mohd Jali and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements, Lorong Tinggian Tunku, Bukit Tunku, Kuala Lumpur. 2010. UPP/BKS/NIR/2010(27).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Musa Ibrahim, Mohd Azizi Mohd Jali and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements, Winner Height Condominium, Taman Desa Petaling, Kuala Lumpur. 2010. UPP/BKS/NIR/2010(28).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Musa Ibrahim, Mohd Azizi Mohd Jali and Noor Ezati Shuib**, Report on radiofrequency and microwave radiation survey on KD Lekiu at TLDM base Lumut, Perak. 2010. UPP/BKS/NIR/2010(29)

**Wan Saffiey Wan Abdullah, Roha Tukimin, Musa Ibrahim, Mohd Azizi Mohd Jali and Zulkifli Yusof**, Radiofrequency and microwave radiation measurements, Pangsapuri Seri Kayan, Subang Jaya, Selangor. 2010. UPP/BKS/NIR/2010(30).

**Wan Saffiey Wan Abdullah, Roha Tukimin, Musa Ibrahim, Zulkifli Yusof and Noor Ezati Shuib**, Radiofrequency and microwave radiation measurements, Pangsapuri Villa Mestika, Pandamaran Indah 2, Klang. 2010. UPP/BKS/NIR/2010(31).

---

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Ahmad Fadzli Ahmad Sanusi, Mohd Azizi Mohd Jali and Mohd Nazri Mat**, Report on radiofrequency and microwave radiation measurements around the telecommunication tower, Bukit Pelindung, Kuantan, Pahang–Telekom Malaysia Berhad. 2010. UPP/BKS/NIR/2010(01).

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Ahmad Fadzli Ahmad Sanusi, Mohd Azizi Mohd Jali, Zulkifli Yusof and Mohd Nazri Mat**, Report on radiofrequency and microwave radiation measurements around the telecommunication tower, Bukit Besar, Terengganu. 2010. UPP/BKS/NIR/2010(06).

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Ahmad Fadzli Ahmad Sanusi, Zulkifli Yusof and Mohd Nazri Mat**, Report on radiofrequency and microwave radiation measurements Kg. Cheras Baru, Selangor. 2010. UPP/BKS/NIR/2010(07).

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Ahmad Fadzli Ahmad Sanusi, Mohd Azizi Mohd Jali and Mohd Nazri Mat**, Report on radiofrequency and microwave measurements around telecommunication tower, Felda Bukit Permai, Johor. 2010. UPP/BKS/NIR/2010(08).

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Ahmad Fadzli Ahmad Sanusi and Noor Mohd Ridwan Brahim**, Keesmetal Engineering. 2010. UPP/BKS/NIR/2010(09).

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Ahmad Fadzli Ahmad Sanusi and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements, Sunway SPK Homes Villa Manja, Damansara. 2010. UPP/BKS/NIR/2010(19).

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Mohd Hayyu Husain, Zulkifli Yusof, Mohd Azizi Mohd Jali, and Mohd Nazri Mat**, Report on radiofrequency and microwave radiation measurements around the telecommunication tower, Bukit Bakar, Kelantan. 2010. UPP/BKS/NIR/2010(15)

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Noor Mohd Ridzwan Brahin, Ahmad Fadzli Ahmad Sanusi and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements, Motorola technology buildings–Motorola Technology Sdn. Bhd. 2010. UPP/BKS/NIR/2010(02).

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Noor Mohd Ridzwan Brahin, Ahmad Fadzli Ahmad Sanusi and Zulkifli Yusof**, Report on radiofrequency and microwave radiation measurements, seaview garden apartment, Batu Ferringhi, Penang–tetuan Digi Telecommunication Sdn. Bhd. 2010. UPP/BKS/NIR/2010(03).

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Noor Mohd Ridzwan Brahim and Mohd Azizi Mohd Jali**, Report on electromagnetic radiation measurements at RN42 station (CTBTO), Cameron Highland, Pahang. 2010, UPP/BKS/NIR/2010(10).

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Noor Mohd Ridzwan, Ahmad Fadzli Ahmad Sanusi, Mohd Azizi Mohd Jali and Mohd Nazri Mat**, Report on radiofrequency and microwave radiation measurements Menara Kek Seng, Kuala Lumpur. 2010. UPP/BKS/NIR/2010(04)

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Noor Mohd Ridzwan, Mohd Hayyu Husain and Ahmad Fadzli Ahmad Sanusi**, Report on radiofrequency and microwave radiation measurements Sri Murni Condominium, Kuala Lumpur. 2010. UPP/BKS/NIR/2010(05)

**Wan Saffiey Wan Abdullah, Rozaimah Abd Rahim, Roha Tukimin, Mohd Hayyu Husain, Ahmad Fadzli Ahmad Sanusi and Mohd Nazri Mat**, Report on electromagnetic radiation measurements at Measat Cyberjaya. 2010. UPP/BKS/NIR/2010(18).

**Zaharudin Ahmad, Hidayah Shahar, Zal U'yun Wan Mahmood, Ahmad Sanadi Abu Bakar and Yii Mei Woo**, Establishment of anthropogenic radioactivity concentration in Peninsular Malaysia marine environment. 2010. NUKLEAR MALAYSIA/L/2010/7.

### PENERBITAN AM ANTARABANGSA / INTERNATIONAL GENERAL PUBLICATIONS

**A. H. Affrida, A. Zaiton, A. M. Salahbiah, S. Shakinah,** R. Yoshihara, I. Narumi, Y. Hase and Y. Oono, Generation new ornamental plant varieties using ion beams. TIARA Annual Report, 2010.

**B. S. Wee**, Y. Oura and M. Ebihara, Trace element analyses of howardites and polymict eucrites using NAA methods. Kyoto University Research Reactor Institute Reports, Kyoto, Japan, 2010.

**Khairuddin Abdul Rahim**, News on Malaysian biofertilizer project 2010. FNCA Biofertilizer Newsletter, 2010.

**Lojius Lombigit, Jaafar Abdullah, Mohd Ashhar Mohd Khalid and Salzali Mohammad**, 3rd generation X-ray computer tomography (CT) system: DAQ & control module. ASEAN Virtual Instrumentation Applications Contest - Industry Segment, Singapore, 2010.

**Naurah Mat Isa**, Injection moulding parameters and performance of rice husk-high density polyethylene composite. International Rice Research institute (IRRI), **295(38)**:151, 2010 (published online). [www.irri.org](http://www.irri.org).

**Zainon Othman and Ahmad Zainuri Mohd. Dzomir**, Status of food irradiation in Malaysia. Indian Association of Nuclear Chemists and Allied Scientists (IANCAS) Bulletin, Radiation Processing of Food & Agricultural Commodities in Asia Pacific Region, 2010.

**Zaiton Ahmad, Sakinah Ariffin, Ros Anita Ahmad Ramli and Mohd Nazir Basiran**, Achievement of sub-project on insect resistace in orchids (2003-2009). FNCA/MEXT Technical Material, 2010.

### PENERBITAN AM KEBANGSAAN / NATIONAL GENERAL PUBLICATIONS

**Abu Bakar Ghazali**, Sumber tenaga berterusan dari proses solar di bumi. Rencana Utusan Malaysia, 2010.

**Faizal Azrin Abdul Razalim** dan **Hazirah Che Sab**, Berita Minggu : Pemantau aktiviti nuklear, 3-4, 13 Jun 2010.

**Khairul Anuar Mohd Salleh** dan **Ab Razak Hamzah**, Perkembangan radiografi industri digital di Nuklear Malaysia. Bahagian Teknologi Industri, Nada Nuklear, 2010.

**Seri Chempaka Mohd. Yusof** dan **Fazliana Mohd. Saaya**, Jemputan ke bicara eksekutif. Nada Nuklear, 2010.

**Seri Chempaka Mohd. Yusof, Rusnah Mustaffa** dan **Nadira Kamarudin**, Puspanita selangkah ke depan. Nada Nuklear, 2010.

**Seri Chempaka Mohd. Yusof, Salahbiah Abdul Majid** dan **Nur Humaira Lau Abdullah**, MOSTI/TPM 4<sup>th</sup> products commercialisation prospecting session (PROCOM). Nada Nuklear, 2010.

**Syirrazie Che Soh@Shaari**, Potential alternative energy in Malaysia. Warta Nuklear Malaysia, 2010.

### KONFEREN ANTARABANGSA / INTERNATIONAL CONFERENCE

Anthony Simm, **Ilham Zainal Abidin**, Gui Yun Tian and Wai Lok Woo, Simulation and visualisation for electromagnetic nondestructive evaluation. *14th International Conference Information Visualisation*, London, 2010.

Atiqur Rahman Bhuiyan, Parviz Fasahat, **Abdul Rahim Harun**, Abdullah Md. Zain, Narimah Md. Kairudin and Wickneswari Ratnam, A promising rice transgressive variant for high yield with desired physical properties of grain and resistance to blast disease for Malaysia. *28th International Rice Conference*, Vietnam, 2010.

**B. Rohyiza, S.A.K. Sharifah Aishah, A. Mohamad Puad and Y. Mohd Abd Wahab.** Oil sludge treatment using thermal and ash vitrification. *2nd Waste to Wealth and the 6th International Conference on Combustion, Incineration, Pyrolysis and Emission Control (i-CIPEC)*, Kuala Lumpur, 26-29 Jul. 2010.

**B. S. Wee**, A. Yamaguchi and M. Ebihara, Platinum group elements in howardites and polymict eucrites: Implications for impactors on the HED parent body. *Lunar and Planetary Science Conference*, Houston, Texas, 1-5 Mar 2010.

**I. K. Ng, K. Y. Kok, S. S. Zainal Abidin, N. U. Saidin, T. F. Choo**, B. T. Goh, S. K. Chong and S. Abdul Rahman, Gold-catalyzed growth of silicon nanowires and core-shell heterostructures via Solid-Liquid-Solid (SLS) process and galvanic displacement. *International Conference on Functional Materials & Devices*, Langkawi, Malaysia, 14 – 17 Jun 2010.

**I. K. Ng, K. Y. Kok, S. S. Zainal Abidin, N. U. Saidin and T. F. Choo**, A aqueous synthesis of silicon nanowire arrays and core-shell structures via electroless nanoelectrochemical process. *Nanotech Malaysia 2010: International Conference on Enabling Science and Nanotechnology*, Kuala Lumpur Convention Centre (KLCC), Malaysia, 1–3 Dec. 2010.

J. Wilson, **I. Z. Abidin**, G. Y. Tian and D. Almond, Pulsed eddy current thermography for the characterisation of rail gauge corner cracking, *BINDT Conference*, Cardiff, United Kingdom, 2010.

**Jaafar Abdullah, Mohd Khairi Mohd Said, Nur Aira Abdul Rahman, Salzali Mohd, Mohamad Rabaie Shari, Nolida Yussop, Syirrazie Che Soh, Norizam Saad, Hearie Hassan, Mahadi Mustapha and Airwan Affandi Mahmood**, Development of a gamma-ray process tomography system for hydrodynamic characterisation of multiphase reactors. *International Conference on Experimental Mechanics (ICEM) 2010*, Kuala Lumpur, 29 Nov – 1 Dec 2010.

**K. A. Mohd Salleh**, A. Bendada, C. Ibarra-Castanedo, X. P. V. Maldaque and **A. R. Hamzah**, Comparison of infrared thermography (IT) and digital industrial radiography (DIR) flat panel system for NDT of welded joints. *10<sup>th</sup> International Conference on Quantitative InfraRed Thermography (QIRT)*, Québec, Canada, 27-30 Jul 2010.

**K. A. Mohd Salleh**, A. Bendada, C. Ibarra-Castanedo, X. P. V. Maldaque and **A.R. Hamzah**, Comparison of Vibrothermography (VT) and Digital Industrial Radiography (DIR) Computed Radiography (CR) for NDT of welded joins. *10<sup>th</sup> International Conference on Quantitative InfraRed Thermography (QIRT)*, Québec, Canada, 27-30 Jul 2010.

**K. Y. Kok, I. K. Ng, N. U. Saidin, F. K. Ahmad Bustamam, S. S. Zainal Abidin** and A. H. Shaari, Synthesis and characterization of magnetic multilayered nanowires by template-directed electrodeposition. *International Conference on Functional Materials & Devices*, Terengganu, 14-17 Jun 2010.

**Kamarudin Samuding, Mohd Tadza Abdul Rahman**, Ismail Abustan, **Roslanzairi Mostapa** and **Lakam Mejus**, Application of Colloidal Borescope System (CBS) in monitoring groundwater movement. *3rd Southeast Asian Conference on Natural Resources and Environmental Management (SANREM)*, Kota Kinabalu, Sabah, 3-5 Ogos 2010.

**Khairiah Yazid@Khalid, Roslan Yahya, Nadira Kamarudin**, Mohd. Zaid Abdullah, **Mohd Ashhar Khalid** and **Abdul Aziz Mohamed**, High resolution images of resin structure in agarwood by means of SEM and micro-CT. *The International Conference on Experimental Mechanics (ICEM)*, Kuala Lumpur, 30 Nov. 2010.

**Khairuddin Abdul Rahim**, Biofertiliser project of Malaysia 2007-2010. FNCA Workshop on Biofertiliser Project, Manila, Philippines; 8-11 Nov. 2010.

**Khairuddin Abdul Rahim**, Success story of commercial applications of nuclear technology from research-application of radiation sterilisation to biofertiliser. FNCA Forum on Technology Transfer to Commercial Application, Manila, Philippines, 12 Nov. 2010.

**Khairul Anuar Mohd Salleh, Ab. Razak Hamzah, Shaharudin Sayuti** and **Abd. Nassir Ibrahim**, Comparison study of Radiographic Sensitivity (RS) between white Imaging Plate (IP) and radiographic film by using hole type Image Quality Indicator (IQI). *ICEM 2010*, Kuala Lumpur, 29 Nov-1 Dec. 2010.

**Khairul Anuar Mohd Salleh, Ab. Razak Hamzah, Shaharudin Sayuti and Abd. Nassir Ibrahim**, Comparison study of Radiographic Sensitivity (RS) between white Imaging Plate (IP) and radiographic film by using hole type Image Quality Indicator (IQI). *ICXRI*, 2010.

**Khairul Zaman Hj Mohd Dahlan, Norshamsul Arif, Mohd Hilmi Mahmod, Siti Fatahiyah Mohamad and Nik Ghazali Nik Salleh**, Radiation curing development in Malaysia. *The 1<sup>st</sup> International Radiation Curing Industry Development Forum (IRCIDF)*. Yixing, China, 23-26 Oct. 2010.

**Kuan-Ying Kok, Inn-Khuan Ng, Nur Ubaidah Saidin, Nurazila Mat Zali, Farah Khuwailah Ahmad Bustamam** and Abdul Halim Shaari, Electrochemical synthesis of highly ordered magnetic multilayered nanowire arrays. *2<sup>nd</sup> ASEAN-APCTP Workshop on Advanced Materials Science and Nanotechnology*, Penang, Malaysia, 21-23 Dec 2010.

**Lakam Mejus, Mohd Tadza Abdul Rahman, Mohd Ariff Ahmad Nazri, Syafalni, Roslanzairi Mostapa, Kamarudin Samuding, Nor Dalila Desa and Mod Omar Hassan**, Efficiency of ERI technique for locating groundwater potential at Selinsing Canal, Kerian irrigation scheme, Perak. *3rd Southeast Asian Conference on Natural Resources and Environmental Management (SANREM)*, Kota Kinabalu, Sabah. 3-5 Ogos 2010.

**M. A. H. Khalid, M. N. Muhd Yunus, M. P. H. Abu, and F. Mohamad Idris**, Applications and services at PUSPATI TRIGA reactor in Malaysia – current status and outlook. *IAEA Technical Meeting on Product and Services of Research Reactors*, Vienna Austria, 28 Jun-2 Jul. 2010.

**M. A. Hj Khalid, N. B. Yusop, Z. B. Ahmad and N. A. Abdullah**, Nuclear instrumentation activities in support of environmental monitoring and studies in Malaysia. *IAEA Technical Meeting on Establishing A Network of Laboratories in the Field of Nuclear Instrumentation for Environmental Monitoring and Other Application*, Krakow, Poland, 27-30 Sept. 2010.

**M. Daud, S. R Mohd Kamarudin, N. U. Saidin, A. Muhammad, Z. Samsu, M. S. Sattar, M. S. Ripin, and R. Rejab**, Cathodic protection: a comparison of results of laboratory and field testing for aluminium alloy sacrificial anodes, *3<sup>rd</sup> International Conference on Solid State Science and Technology*, Kuching, Sarawak, 1-3 Dec 2010.

**M. S. Kassim**, N. Klaysubun, Z. Toibayev, L. A. Doan and H. Kumekawa, Establishing safeguard systems of nuclear material accounting and control (NMAC) at a facility level. *IAEA Regional Training Course on State Systems of Accounting for and Control of Nuclear Materials*, Tokai, Japan, 18-29 Oct. 2010.

**M. Z. Ibrahim, M. Omar, Z. Laili, E. Phillip, K. Samuding and L. Mejus**, Evaluation of Malaysian peat soil as an adsorbent for radium-226. *SANREM*, Kota Kinabalu, Sabah, 3-5 Ogos 2010.

**Mohamad Azman Che Mat Isa and Mohamad Puad Abu**, Production of adsorbent from palm shell for radioactive iodine scrubbing process. *2nd W2W and 6th i-CIPEC*, Kuala Lumpur, 2010.

**Mohamad Puad Abu**, Nuclear power infrastructure Malaysia. *1st Technical Working Group Meeting on Nuclear Power Infrastructure*, Vienna, Austria, 3-4 Nov. 2010.

**Mohammad Suhaimi Kassim**, and Zulkefle Hussin, Status of ISE and safety analysis activities in Malaysia. *IAEA ANSN SATG Annual Meeting*, Daejeon, Rep. of Korea, 4-8 Oct. 2010.

**Mohd Azmi Ismail**, Zaw Win, Umar Hamzah and Abdul Rahim Samsudin, Application of electrical resistivity imaging and ground penetrating radar methods in mapping the subsurface hydrocarbon contaminants. *SANREM*, Kota Kinabalu, Sabah, 3-5 Ogos 2010.

**Mohd Fairus Abdul Farid**, Safety analyses of the PUSPATI TRIGA MARK-II using Eureka-2/Rr code Research Reactor Technology. *FNCA Meeting Beijing*, China, 13-16 Sept. 2010.

**Mohd Hilmi Mahmood, Norshamsul Arif, Mek Zah Salleh, Rida Tajau, Khairul Zaman Hj Mohd Dahlan, Rosley Che Ismail, Flora Sim and Sharilla Muhammad Faizal**, Production of green or eco-friendly coatings, adhesives, printing inks and overprint varnishes (OPV) from radiation (UV/EB) curable palm oil based resins/oligomers. *The 3rd International Invention Fair Middle East (IIFME)*, Kuwait City, 07-10 Nov. 2010.

N. Klaysubun, **M. S. Kassim**, Z. Toibayev, L. A. Doan and H. Kumekawa, SSAC at state level. IAEA Regional Training Course on State Systems of Accounting for and Control of Nuclear Materials, Tokai, Japan, 18-29 Oct. 2010.

**N. Othman**, N. K. Othman and **N. Nasrul**, Optimization of CO<sub>2</sub> using response surface method: A novel integrated pyrolysis-combustion approach. 2nd Waste to Wealth (W2W) and the 6th International Conference on Combustion, Incineration, Pyrolysis and Emission Control (i-CIPEC), Kuala Lumpur, 26-29 Jul. 2010.

**N. Othman, N. M. Hasan**, E. M. F. Engku Chik, **M. A. Khusaini Adnan**, **A. A. Mahmood**, **H. Hassan** and **M. A. Abd Rahman**, Modeling and statistical analysis on flow measurement using radiotracer: A case study. International Conference on Experimental Mechanics 2010 (ICEM), Kuala Lumpur, 29 Nov-1 Dec 2010.

**N. U. Saidin., K. Y. Kok, I K. Ng, F. K. Ahmad Bustaman** and **N. Mat Zali**, Fabrication of porous alumina template for electrochemical synthesis of nanowires, 2<sup>nd</sup> ASEAN-APCTP Workshop on Advanced Materials Science and Nanotechnology, Penang, 21-23 Dec 2010.

Nahrul Khair Alang Md Rashid, **Norimah Yusof**, Khairuddin Abdul Rahim, Ros Anita Ahmad Ramli, Mohd Zaidan Kandar, **Mat Rasol Awang**, Mohd Fajri Osman, Shyful Azizi Abdul Rahman and Ahsanulkhaliquin Abdul Wahab, Ethnobotanic knowledge of aborigines in Belum forest area. International Conference on Advancement in Science and Technology 3<sup>rd</sup> IIUM-iCAST 2010, Kuantan, Pahang, 26-29 Nov. 2010.

**Nor Pa'iza Mohamad Hasan**, **Glam Hadzir Patai Mohamad**, **Rasif Mohd Zain** and **Ismail Mustapha**, Establishment of the neutron calibration curve for water measurement in a bulky used paper. ICEM, Kuala Lumpur, 29 Nov-1 Dec 2010.

**Norasalwa Zakaria**, **Mohamad Annuar Assadat Husain**, **Muhd Noor Muhd Yunus** and **Farid Nasir Ani**, Pyrolysis of rubber gloves in the Integral Test Plant. 2nd Waste to Wealth (W2W) and the 6th International Conference on Combustion, Incineration, Pyrolysis and Emission Control (i-CIPEC), Kuala Lumpur, 26-29 Jul. 2010.

**Rusli Ibrahim**, **Abdul Rahim Harun**, **Sobri Hussein** and **Azhar Mohamad**, Composition or quality in rice. FNCA Workshop on Mutation Breeding, Manila, Philippines, 8-12 Nov. 2010.

**Rusli Ibrahim**, Country report on mutation breeding project. FNCA Workshop on Mutation Breeding, Manila Philippines, 8-12 Nov. 2010.

**Rusli Ibrahim**, **Norazlina Noordin**, **Alvina Lindsay Mijen**, **Azhar Mohamad**, **Abdul Rahim Harun** and **Sobri Hussein**, Novel production systems for banana and pineapple through in vitro mutagenesis and biotechnology. 28th. International Horticultural Congress, Lisboa, Portugal, 22-27 Aug. 2010.

**Rusli Ibrahim**, **Norazlina Noordin**, **Siti Maryam Mohd Nahar** and **Azhar Mohamad**. Improvement of banana for fusarium wilt resistance and high fruit quality through mutation induction. FNCA Workshop on Mutation Breeding, Manila, Philippines, 8-12 Nov. 2010.

**S. R. Mohd Kamarudin**, **M. Daud**, **N. U. Saidin**, **Z. Samsu**, **A. Muhammad**, **M. S. Sattar**, **M. S. Ripin**, and R. Rejab, Cathodic protection: a comparison of results of laboratory and field testing for aluminium alloy sacrificial anodes, 3<sup>rd</sup> International Conference on Solid State Science and Technology, Kuching, Sarawak, 1-3 Dec 2010.

**Siti A'iasah Hashim**, C.S Wong and M. Radzi Abas, Control of nitric oxide emission using dielectric barrier discharge. 2nd Waste to Wealth and the 6th International Conference on Combustion, Incineration, Pyrolysis and Emission Control (i-CIPEC), Kuala Lumpur, 26-29 Jul. 2010.

**Sivapalan Kathiravale** and **Muhd Noor Muhd Yunus**, Waste to wealth. 2nd Waste to Wealth and the 6th International Conference on Combustion, Incineration, Pyrolysis and Emission Control (i-CIPEC), Kuala Lumpur, 26-29 Jul. 2010.

Umar Hamzah, **Mohd Azmi Ismail**, Rofikul Islam and Che Ku Mohd Waqiuuddin. A study on the effect of oil tank leakage to soil and groundwater at Caltex Petrol pump Kubang Kerian Kelantan by geophysical and geochemical analysis. SANREM, Kota Kinabalu, Sabah, 3-5 Ogos 2010.

**Z. Masood**, Inspection of PUSPATI TRIGA reactor (RTP) core and control rod. IAEA Technical Meeting on Assessment of Core Structural Materials and Surveillance Programme of Research Reactors, Vienna, Austria, 14-18 Jun 2010.

Z. Toibayev, **M. S. Kassim**, N. Klaysubun, L. A. Doan, and H. Kumekawa, Fuel design, storage and handling. IAEA Regional Training Course on State Systems of Accounting for and Control of Nuclear Materials, Tokai, Japan, 18-29 Oct. 2010.

**Zainon Othman, Norimah Yusof** and **Ahmad Zainuri Mohd Dzomir**, Contribution of irradiation to food security and safety: an update. International Conference on Food Security during Challenging Times, Serdang, Selangor, 5-7 Jul. 2010.

**Zaiton Ahmad, Sakinah Ariffin, Affrida Abu Hassan, Ros Anita Ahmad Ramli**, Mohd Nazir Basiran and **Rusli Ibrahim**, Induction of insect resistance in Orchid. FNCA Workshop on Mutation Breeding, Manila, Philippines, 8-12 Nov. 2010.

#### KONFEREN KEBANGSAAN /NATIONAL CONFERENCE

**A. H. Che Kamaruddin, F. A. Razalim**, N. Surip, **M. A. W. Yusof, N. M. Nik Ibrahim, N. Harun, M. F. Sujan**, N. N. A. Malik, R. Che Musa, **T. Karuppiyah**, Potential site selection for radioactive waste repository using GIS (study area: Negeri Sembilan)-phase 1. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**A. R. Anwar, A. K. Fikri, M. S. Salleh, M. Arif Hamzah, Azraf Azman** and **Rosli Darmawan**, Stress analysis for robot arm version 2. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**A.N. Ab. Rahim, N. Ramli, T. Lanyau, P. Prak Tom**, and **M. F. Zakaria**, Fuel transfer cask design concept for Reactor TRIGA PUSPATI (RTP), Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Abd. Halim Baijan, Rokiah Mohd Sabri** and **Abu Bakar Mhd Ghazali**, Possibility of X-ray radiography with plasma focus device. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Abdul Rahim Harun**, Wickneswary Ratnam, Saad Abdullah, **Azhar Mohd**, Atiqur Rahman Bhuiyan and **Rusli Ibrahim**, Screening for virulence of local *P. oryzae* pathotypes. National Rice Conference, Lumut, Perak, 28-30 Jun 2010.

**Affrida Abu Hassan, Zaiton Ahmad, Sakinah Ariffin**, Yutaka Oono, Yoshihiro Hase, Naoya Shikazono, Issay Narumi and Atsushi Tanaka, Mutation induction of orchids by ion beams. Seminar R&D. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Ahmad Nazrul Abd Wahid, Phua Choo Kwai Hoe, Shyful Azizi Abdul Rahman, Mohd Fajri Osman**, Latiffah Noordin, Abdul Razak Ruslan, Maizatul Akmmam Mhd Nasir, Hazlina Abdullah, Amirul Azmi Supuan, **Misman Sumin, Ahamad Sahali Mardi** and **Khairuddin Abdul Rahim**. Use of organic fertiliser and biofertiliser in a modern planting system to increase the productivity of vanilla plant. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Ahmad Sanadi Abu Bakar, Zaharudin Ahmad, Yii Mei Woo, Zal U'Yun Wan Mahmood, Norfaizal Mohamed, Nita Salina Abu Bakar, Mohd Izwan Abdul Adziz** and **Hidayah Shahar**, Study on anthropogenic radionuclides in east coast Peninsular Malaysia exclusive economic zone (EEZ), 23rd Regional Malaysian Symposium of Analytical Science (SKAM-23), Kuala Terengganu, 4-6 Oct. 2010.

**Ahmad Sanadi Abu Bakar, Zaharudin Ahmad, Zaini Hamzah** and **Siti Nurzawani Zainudin**, Distribution of 210Pb activity concentrations in marine surface sediments within East Coast Peninsula Malaysia exclusive economic zone (EEZ), Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**Amy Hamijah Ab Hamid**, Mohd Zaidi Abdul Rozan and Safaai Deris, An overview of the development of Nuclear Malaysia emergency response and preparedness plan framework. NuSTEC, UNITEN, Kajang, 4-5 Ogos 2010.

**Ariff Shah Ismail, Mohamad Fauzi Saad, Shaiful Rizaide Mohd Yakin, Khaironie Mohd Takip, Muhammad Khairul Ariff Mustafa and Mohamad Puad Abu**, Collecting water samples from TRIGA PUSPATI pool. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Ariff Shah Ismail, Shaiful Rizaide Mohd Yakin, Khaironie Mohd Takip, Nazaratul Ashifa Abdullah Salim, Wee Boon Siong, Muhammad Khairul Ariff Mustafa and Mohamad Puad Abu**, Reactor TRIGA PUSPATI: Pool water chemistry, Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

Atiqur Rahman Bhuiyan, Parviz Fasahat, **Abdul Rahim Harun**, Abdullah Md. Zain, Narimah Md. Kairudin and Wickneswari Ratnam, A promising transgressive variant with red pericarp grain: Selected for red rice cultivar development. National Rice Conference, Lumut, Perak, 28-30 Jun 2010.

**B. S. Wee**, M. Ebihara and **A. K. H. Wood**, Comparisons of PGA and INAA in the analyses of meteorite samples. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt, 2010.

**B.S. Wee**, M. Ebihara and **A. K. H. Wood**, Siderophile elements of hed meteorites: An INAA study. NuSTEC, UNITEN, Kajang, 4-5 Aug. 2010.

**B.S. Wee**, M. Ebihara and **A. K. H. Wood**, Determination of platinum group elements in terrestrial rocks using nickle sulfide fire assay isotope dilution ICP-MS. SKAM-23, Kuala Terengganu, 4-6 Oct. 2010.

**Chong Saw Peng, Mohd Fajri Osman, Shyful Azizi Abdul Rahman, Khairuddin Abdul Rahim and Mat Rasol Awang**, Development of the gaharu oil quality control. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Faizal Azrin Abdul Razalim, Noraini Surip, Ahmad Hasnulhadi, Nazran Harun, Nurul Nadia Abd Malek and Roziah Che Musa**, Geographical Information System (GIS) suitability analysis of radioactive waste repository site in Pahang. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**Faridah Mohamad Idris**, Wan Ahmad Tajuddin Wan Abdullah, Zainol Abidin Ibrahim, Peter Goettlicher, William Schmidke and Yuji Yamazaki, Design and simulation of FPGA-based serial data control for a readout control in a calorimeter. NuSTEC, UNITEN, Kajang, 4-5 Ogos 2010.

Ghazali Hussin, Wan Mohtar Wan Yusoff, **Abdul Rahim Harun** and **Khairuddin Abdul Rahim**, Selection of potential lactic acid bacteria for whole crop paddy silage in Malaysia. National Rice Conference 2010, Lumut, Perak, 28-30 Jun 2010.

**H. A. M. Abdul Rahim**, Abdullah Mat Zin, Marziah Mahmood, **H. Sobri**, Varietal improvement of irrigated rice under minimal water conditions. Seminar R&D. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**H. Sobri, I. Rusli, A. H. Rahim, M. Azhar**, A. W. Ruzaini, Hawa, and N. Wan, Bioreactor technology for herbal plants. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Hasif Muhamad, Saipo Bahari Abd. Ratan, A. Firdaus Che Hassan, Mazlipah Mohd Ramli, M. Hazri M. Salleh dan M. Ghazali Bachok**, Analisa data pengurangan kerosakan peralatan di Nuklear Malaysia. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Jaafar Abdullah, Salzali Mohd, Engku Mohd Fahmi Engku Chik, Mohamad Rabiae Shari, Hearie Hassan and Airwan Affandi Mahmood**, X-ray computed tomography for visualising inner structures of industrial materials. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Jong Bor Chyan, Liew Pauline Woan Ying, Ahmad Zainuri Mohd. Dzomir**, Siti Khadijah Abu Hadin and Nabilahuda Mohd Tumirin, Effects of gamma-rays on an indigenous *Bacillus* isolate. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Jong Bor Chyan, Liew Pauline Woan Ying, Muhamad Lebai Juri, Ahmad Zainuri Mohd. Dzomir**, Leo Kwee Wah, and **Mat Rasol Awang**, Microbial fuel cell: A green technology. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Julia Abdul Karim, Mohamad Hairie Rabir, Na'im Syauqi Hamzah and Muhd Husamuddin Abd Khalil,** Determination of the 14th core configuration of PUSPATI TRIGA Reactor using diffusion proximation method. NuSTEC, UNITEN, Kajang, 4-5 Aug. 2010.

**K. Samuding**, M. T. Abdul Rahman, I. Abustan, M. H. Isa, Feasibility of soil-EFB mixtures as a filled barrier material for waste disposal site. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**Khair'iah Yazid@Khalid and Roslan Yahya**, A simple method to compute signal noise ratio in CT image. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Khairuddin Abdul Rahim, Phua Choo Kwai Hoe, Ahmad Nazrul Abd. Wahid, Pauline Liew Woan Ying, Ahamad Sahali Mardi and Mat Rasol Awang**, Biofertiliser development incorporating nuclear technologies—challenges and potentials to the industry. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Khairul Zaman Mohd Dahlan, Kamaruddin Hashim, Kamarudin Bahari, Maznah Mahmood, Norzita Yaacob, Norhashidah Talip, Abd Rahim Harun, Rohaya Yusof, Ahamad Sahali Mardi, Khairuddin Abdul Rahim** and Sauddi Sitor, Application of natural polymer in agriculture - radiation processed oligochitosan as growth promoter and elicitor for rice crops. National Rice Conference 2010, Lumut, Perak, 28-30 Jun 2010.

**Liew Pauline Woan Ying**, Nazalan Najimudin, **Jong Bor Chyan, Latiffah Noordin, Khairuddin Abdul Rahim** and Amir Hamzah Ahmad Ghazali, Effect of macronutrient concentration on biological N<sub>2</sub> fixation by Azotobacter vinelandii ATCC 12837. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**M. Azhar, H. Abdul Rahim. Rusli Ibrahim and H. Sobri**, Chronic gamma irradiation for crops improvement and biotechnology. National Biotechnology Seminar, Kuala Lumpur, 24-26 Mei 2010.

**M. Azhar**, K. M.I. Yee, and D. Mastura, Molecular markers to assess genetic diversity and mutant identifications in *Jatropha curcas*. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**M. Azhar**, M.N Mohd Zaim, H. Farini, N.M. Md Razali, **H. Sobri** and **H. Abd. Rahim**, Potential mutant lines of *Jatropha curcas* for high yield fruiting. National Biotechnology Seminar, Kuala Lumpur, 24-26 Mei 2010.

**M. Azhar**, M.N. Mohd Zaim, N.M. Md Razali, H. Farini, H. Abdul Rahim, **H. Sobri**, Mutagenesis of *Jatropha curcas*-exploring new traits in the breeding of a biofuel plant. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**M. B. Harun, N. Kasim, M. E. Mahmoud, K. H. Alauddin and Z. Selamat**, Mechanical properties and microscopy studies on the heated treated steels. Electron Microscopy Conference, Langkawi, 14-16 Dec 2010.

**M. F. Zakaria, T. Lanyau** and **M. S. Kassim**, Commissioning of PUSPATI TRIGA Reactor primary cooling system and lessons learnt. NuSTEC, UNITEN, Kajang, 4-5 Aug. 2010.

**M. F. Zakaria, T. Lanyau**, and **A. N. Ab Rahim**, Reactor TRIGA PUSPATI (RTP) spent fuel pool conceptual design, Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**M. S. Meor Yusoff, Hishamuddin Hussein, Choo Thye Foo, Nurul Wahida Ahmad Khairuddin, Masliana Muslimin** and **Wilfred@Sylvester Paulus**, Recycling of radioactive oil sludge waste into pavement brick. i-CIPEC, Kuala Lumpur 27-28 Jul. 2010.

**M. S. Meor Yusoff, M. Masliana** and **P. Wilfred**, Comparison of using regression and fundamental parameter methods in the EDXRF analysis of hazardous elements. Proceedings of ICXRI, Universiti Malaysia Perlis, Perlis, 9-10 Jun 2010.

**M. S. Meor Yusoff, M. Masliana** and **Wilfred Paulus**, Effect of fractional precipitation on quality of nanostructured alumina produced from aluminium metal wastes. Proceedings of ICXRI, Universiti Malaysia Perlis, Perlis, 9-10 Jun 2010.

**M. S. Meor Yusoff, M. Masliana** and **Wilfred Paulus**, Effect of peak broadening on the determination of crystallite size for high-velocity milled nanostructured alpha alumina. 2nd International Workhop and Conference on Nanotechnology, Bangi, Selangor, Selangor, 25-27 Jan. 2010.

---

**M. S. Meor Yusoff, M. Masliana, P. Wilfred and Parimala Devi**, Development of a simultaneous elemental analysis for clay minerals using EDXRF. *Proceedings of ICXRI*, Universiti Malaysia Perlis, Langkawi, 9-10 Jun 2010.

**M. S. Meor Yusoff, M. Masliana, P. Wilfred and Parimala Devi**, Effect of NaOH concentration and time on the fabrication of titania nanotube by a modified hydrothermal method. *Proceedings of IMTCE*, Institute Materials Malaysia, Kuching, 14-16 Jun 2010.

**M. S. Meor Yusoff, M. Masliana, P. Wilfred and Parimala Devi**, Synthesis and characterisation of titanate nanowire by alkaline fusion method. *2nd international workshop and conference on nanotechnology (IWCN)*, Bangi, Selangor, 25-27 Jan. 2010.

**M. T. Khaironie, A.F. Mohd Fairus, A. J. K. Zareen Khan, M. Mohd Zaid and Muhammad Khairul Ariff Mustafa**, Techno economic assessment for upgrading PUSPATI TRIGA research reactor: Issues, challenges and findings. NuSTEC, UNITEN, Kajang, 4-5 Aug. 2010.

**M. Y. Yusof, W. S. W. Abdullah, Noorhazleena Azaman, M. Z. Umar and Khairiah Yazid**, Effect of heating mechanism on concrete during inspection by laser shearography.

**M. Z. Ibrahim, Z. Laili, M. Omar and E. Phillip**, Sorption distribution coefficients of uranium, thorium and radium of selected Malaysian peat soils. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**M.Y Yusof, W.S W Abdullah, Noorhazleena Azaman, M. Z Umar and M. N Ikhwan**, Laser shearography: Safety technique for concrete inspection in NDT.

**M.Y Yusof, W.S. Wan Abdullah**, V. Tharmalingamm, A.N. Ahmad Puad and M. E. Hoque, Corrosion detection in pipeline by laser speckle correlation.

**Mat Rasol Awang**, Penggunaan hasil buangan kelapa sawit untuk penanaman cendawan. Bengkel Persatuan Penanaman Cendawan Malaysia (MMRA), Universiti Malaya, 24 Apr. 2010.

**Mat Rasol Awang, Rosnani Abdul Rashid, Hassan Hamdani Mutaat, Meswan Maskom** and Mohd Shukri Mahmud. Economic assessment of mushroom project commercialisation. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Md. Suhami Elias, Ab. Khalik Wood, Azian Hashim, Mohd Suhami Hamzah, Shamsiah Ab. Rahman and Nazaratul Ashifa Abdullah Salim**, Application of geoaccumulation and enrichment factor for the assessment of elemental pollution in sediment from Talang-Satang and Bako National Park of Sarawak. NuSTEC, UNITEN, Kajang, 4-5 Ogos 2010..

**Md. Suhami Elias, Ab. Khalik Wood, Zaleha Hashim, Mohd Suhami Hamzah, Shamsiah Ab. Rahman and Nazaratul Ashifa Abdullah Salim**, Levels and sources of Polycyclic Aromatic Hydrocarbons (PAHs) in sediment from Tuanku Abdul Rahman National Park, Sabah.SKAM-23, Kuala Terengganu, 4-6 Oct. 2010.

**Md. Suhami Elias, Ab. Khalik Wood, Zaleha Hashim, Mohd Suhami Hamzah, Shamsiah Ab. Rahman and Nazaratul Ashifa Abdullah Salim**, Distribution and origin sources of Polycyclic Aromatic Hydrocarbons (PAHs) pollution in sediment of Sarawak coastal area, Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**Mek Zah Salleh, Khairiah Haji Badri, Mohd. Hilmi Mahmood** and Sarani Zakaria, Sifat fiziko-kimia poliol poliuretana hipercabang daripada asid oleik minyak sawit. Kolokium Universiti Kebangsaan Malaysia, 2010.

**Meor Yusoff Meor Sulaiman, Wilfred Paulus and Masliana Muslimin**, Comparison in phase transformation of calcium phosphate and zirconium doped calcium phosphate biomaterials by *in-situ* XRD. ICEM, Kuala Lumpur, 29 Nov.-1 Dec. 2010

**Meor Yusoff Meor Sulaiman, Wilfred Paulus and Masliana Muslimin**, High velocity nano alumina wet milling in zirconia and corundum mills. ICEM, Kuala Lumpur, 29 Nov. – 1 Dec. 2010.

**Mohamad Hairie Rabir dan Muhammad Khairul Ariff Mustafa**, Perbandingan di antara bahanapi TRIGA dan jenis VVR-M2. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

---

**Mohamad Hairie Rabir, Mohd Amin Sharifudin Salleh, Julia Abdul Karim, Na'im Syauqi Hamzah, Mohd Fazli Zakaria dan Tonny Lanyau**, Pengiraan keselamatan kegentingan (Keff) untuk rekabentuk cadangan bagi kolam penyimpanan bahanapi RTP terpakai. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohamad Hairie Rabir, Mohd Amin Sharifudin Salleh, Julia Abdul Karim** dan **Naim Syauqi Hamzah**, Pengiraan nilai Keff konfigurasi kegentingan pertama teras RTP menggunakan MCNP5. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohamad Puad Abu**, A preview of developing technology roadmap. Bengkel Bersama warga Nuklear Malaysia untuk perancangan pembangunan teknologi kuasa nuklear, Agensi Nuklear Malaysia, Bangi, Selangor, 4 Mac 2010.

**Mohamad Puad Abu**, Penilaian teknologi kuasa nuklear. Bengkel bersama Pegawai Muda Agensi Nuklear Malaysia, Bangi, Selangor, 9 Aug. 2010.

**Mohamad Puad Abu**, Perancangan penggunaan kuasa nuklear di Malaysia, Bengkel bersama Pegawai Muda Agensi Nuklear Malaysia, Bangi, Selangor, 9 Aug. 2010.

**Mohamad Safuan Sulaiman, Abdul Muin Abdul Rahman, Raja Murzaferi Raja Moktar** dan **Sa'aidi Bin Ismail**, Cadangan penambahbaikan pengurusan pusat data melalui pelaksanaan strategik teknologi server maya bagi menyokong aktiviti warga Agensi Nuklear Malaysia. Seminar R&D, Agensi Nuklear Malaysia, 12-15 Okt. 2010.

**Mohammad Suhaimi Kassim, Mohd Fairus Abdul Farid, Khairol Nizam Mohamed, Mazleha Maskin, Tonny anak Lanyau, Zaredah Hashim** and **Mohd Huzair Hussain**, Initiatives to support implementation of nuclear power programme (NPP) roadmap - research & development and support & services by TES. Workshop on NPP Implementation with Warga BKN, Agensi Nuklear Malaysia, Bangi, Selangor, 12-13 Jul 2010.

**Mohd Azmi Ismail**, Ground penetrating radar for detection of underground water leakage. Seminar Geofizik Kejuruteraan dan Sekitaran, 2010.

**Mohd Azmi Ismail**, Mohammad Roston Zakaria and **Mohd Nazran Harun**, Uranium mineralisation in Peninsular Malaysia: current status. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**Mohd Dzul Aiman Aslan, Mohamad Safuan Sulaiman** dan **Abdul Muin Abdul Rahman**, Kesedaran teknik kejuruteraan sosial di Nuklear Malaysia. Seminar R&D, Agensi Nuklear Malaysia, 12-15 Okt. 2010.

**Mohd Dzul Aiman Aslan, Mohd Khairulezwan Abdul Manan, Mohd Sabri Minhat** and **Mohd Idris Taib, Izhar Abu Hussin**, Conceptual design of stepper motor replacing servo motor for control rod controller. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohd Fairus Abdul Farid, Julia Abdul Karim** and **Mohammad Suhaimi Kassim**, Steady state thermal hydraulic calculation for PUSPATI TRIGA Reactor (RTP) using COOLODN2. NuSTEC, UNITEN, Kajang, 4-5 Aug. 2010.

**Mohd Fazli Zakaria, Tonny Anak Lanyau** and **Ahmad Nabil Ab Rahim**, Reactor TRIGA PUSPATI (RTP) spent fuel pool conceptual design, Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohd Harun, Mahdi Ezwani Mahmoud, Zaifol Shamsu, Norasiah Kasim, Zaiton Selamat, Katrul Hisham Alauddin** and **Zulkifli Zainon**, Damage analysis on furnace radiant tube using energy dispersive X-ray analysis. ICXRI, Aseania Resort, Langkawi, 9 – 10 Jun 2010.

**Mohd Harun, Zaiton Selamat** and **Mohd Shariff Sattar**, Effect of welding on the heated carbon steels for oil ridge platform. Malaysian Metallurgy Conference, Penang, 23-24 Nov. 2010.

**Mohd Idris Taib, Izhar Abu Hussin, Zareen Khan Abdul Jalil Khan, Mohd Dzul Aiman Aslan, Mohd Khairulezwan Abdul Manan, Nurfarhana Ayuni Joha** and **Mohd Sabri Minhat**, Hardware design for new instrumentation and control system of RTP. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohd Idris Taib**, Menangani perubahan dari zaman industri kepada zaman kebijaksanaan. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

---

**Mohd Izwan Abdul Adziz, Ahmad Sanadi Abu Bakar, Yii Mei Woo and Nurrul Assyikeen Jaffary**, Distribution of 137Cs in surface seawater and sediment around Sabah's Sulu-Sulawesi sea. 2nd National Seminar on Prime Marine Scientific Expedition (EPSP), Kuala Terengganu, 24-25 Jul. 2010.

**Mohd Khairulezwani Abdul Manan, Mohd Idris Taib and Mohd Dzul Aiman Aslan**, Implementation of programmable logic controller for proposed new instrumentation and control system of RTP. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohd Rizal Mamat@Ibrahim, Azraf Azman and Noraishah Othman**, Overview of CFD simulation of stirred vessel. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohd Sabri Minhat, Mohd Idris Taib, Izhar Abu Hussin and Zareen Khan Abdul Jalil Khan**, Human machine interface for research reactor instrumentation and control system. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohd Zaid Hassan, Anwar Abdul Rahman, Rosli Darmawan and Mohd Arif Hamzah**, The preliminary of software development for the kinematics analysis of 5 DOF Nuclear Malaysia robot arm V2. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohd Zaid Mohamed, Shahirah Abd Rahman, Mat Zin Husin dan Shaiful Rizaidee**, Pengurusan penuaan reaktor TRIGA PUSPATI. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mohd. Azidi Abd. Rahman, Abdul Muin Abdul Rahman, Sufian Norazam Mohamed Aris, Sa'aidi Ismail, Mohamad Safuan Sulaiman, Maizura Ibrahim, Hazizi Omar and Roslan Mohd Ali**, Research & development management system (RDMS). Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Muhd Husamuddin Abdul Khalil, Julia Abdul Karim, Na'im Syauqi Hamzah, Mohamad Hairie Rabir and Mohd Amin Sharifuldin Salleh**, Evaluation of dose exposure from irradiated samples at Reaktor TRIGA PUSPATI (RTP). Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Mukhlis Mokhtar, Abu Bakar Ghazali and Muhamad Zahidee Taat**, Development of baby-EBM interface system. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**N. A. Masenwat, M. N Ikhsan, M.P. Ismail, and A.N. Ibrahim**, Radiation shielding material: The effect of barium sulphate ( $\text{BaSO}_4$ ) powder on the physical properties of concrete.

**N. Ramli, and A.N. Ab Rahim**, Inspection of PUSPATI TRIGA Reactor components and structures for assuring integrity. NuSTEC, UNITEN, Kajang, 4-5 Aug. 2010.

**N. U. Saidin, K. Y. Kok, I. K. Ng and F. K. Ahmad Bustamam**, Morphological evolution of electrochemically deposited nanostructures microscopy, 19<sup>th</sup> Scientific Conference of the Electron Microscopy Society of Malaysia, Langkawi 8– 10 Dec 2010.

**N. U. Saidin, K. Y. Kok, I. K. Ng, N. Mat Zali, F. K. Ahmad Bustamam and S. S. Zainal Abidin**, Fabrication of nickel nanowires using AAO as template, MTec Colloquium, 2010

**N. U. Saidin, K. Y. Kok, I. K. Ng, N. Mat Zali, S. S. Zainal Abidin and F. K. Ahmad Bustamam**, Electrodeposition of nickel nanowire arrays. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**N. U. Saidin, M. Daud, S. R. Mohd Kamaruddin, Z. Samsu, A. Muhamad, R. Rejab, M. S. Ripin and M. S. Sattar**, Performance of rust converter based in tannic acid. Malaysian Metallurgy Conference (MMC 2010) & 4<sup>th</sup> Malaysian Powder Metallurgy Symposium (4<sup>th</sup> MPMS), 22 – 23 November 2010, Parkroyal Hotel, Batu Ferringhi, Penang, pg 61.

**N. U. Saidin, M. Daud, S. R. Mohd Kamarudin, Z. Samsu, A. Muhamad, R. Rejab, M. S. Ripin and M. S. Sattar**, Study of chelating agent as a surface modifier for retarding corrosion attack on ferrous metal. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Na'im Syauqi Hamzah, Julia Abdul Karim, Mohamad Hairie Rabir, Muhd Husamuddin Abdul Khalil, Mark Dennis Usang, Mohd Huzair Hussain and Mohd Amin Sharifuldin Salleh**, Shielding design of highly activated sample storage at Reaktor TRIGA PUSPATI, Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

---

**Nurah Mat Isa, Mohd Yusof Hamzah, Siti Zulaiha Hairaldin and Zulkifli Ghazali**, Gamma irradiation effect on thermoshrink polyethylene tube: Case study. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Nazaratul Ashifa Abdullah Salim, Md Suhami Elias, Abdul Khalik Wood, Ezwiza Sanuri, Mohd Suhami Hamzah and Shamsiah Abd. Rahman**, Multielement analysis in rice grains by instrumental neutron activation analysis. NuSTEC, UNITEN, Kajang, 4-5 Ogos 2010.

**Nolida Yussup, Ismail Mustapha, Nur Aira Abd. Rahman, Jaafar Abdullah, Mohd. Ashhar Hj. Khalid, Hearie Hassan and Chong Foh Yoong**, Development of smart wireless detector system for gamma ray detection. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Noor Azreen Masenwat, Mohamad Noorul Ikhsan Ahmad dan Mohamad Pauzi Ismail**, Bahan Perisai Sinaran: Perbandingan ciri-ciri fizikal konkrit gred berbeza (G20, G25 dan G30) dengan serbuk BaSO<sub>4</sub> sebagai bahan tambah (Radiation shielding material: comparison on the physical properties of different concrete grade (G20, G25 and G30) mixed with barium sulphate powder (BaSO<sub>4</sub>). Seminar R&D, Agensi Nuklear, Bangi, Selangor, 12-15 Okt. 2010.

**Noor Azreen Masenwat, Mohamad Pauzi Ismail and Mohd Noorul Ikhsan Mohamed**, Concrete as a radiation shielding material: the appropriate barium sulphate (BaSO<sub>4</sub>) percentage in concrete mixture. Seminar R&D, Agensi Nuklear, Bangi, Selangor, 12-15 Okt. 2010.

**Nor Arymaswati Abdullah**, Salinda Buyamin, **Glam Hadzir Patai Mohamad and Abu Bakar Ghazali**, An application of observer for position sensorless stepper motor drives. Seminar R&D, Agensi Nuklear, Bangi, Selangor, 12-15 Okt. 2010.

**Nor Pa'iza Mohamad Hasan, Glam Hadzir Patai Mohamad, Rasif Mohd Zain and Ismail Mustapha**, Establishment of calibration curve for water measurement in a bulky paper recycling by neutron device. Seminar R&D 2010, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Norasalwa Zakari, Rohyiza Ba'an and Sivapalan Khathiravale**, Radiological impact from airborne routine discharges of coal-fired power plant. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor. 12-15 Oct. 2010.

**Norazlina Noordin, Rusli Ibrahim**, Norzulaani Khalid and Noorsaadah Abd. Rahman-Plant cell and organ elicitation for producing useful secondary metabolites. Seminar R&D 2010. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Nur Humaira Lau Abdullah, Salmaah Moosa and Mohd Zaidan Kandar**, Characterisation of gaharu hydrosol: Physical, chemical and microbiological properties. Seminar R&D 2010. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Nurfarhana Ayuni Joha, Izhar Abu Hussin, Mohd Idris Taib and Zareen Khan Abdul Jalil Khan**, The digital reactor protection system for the instrumentation and control of Reaktor TRIGA PUSPATI (RTP). Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Nurrul Assyikeen Md. Jaffary, Zal U'yun Wan Mahmood, Zaharudin Ahmad, Yii Mei Woo and Kamarozaman Ishak**, Behavior and distribution of 226Ra and 228Ra in the east coast of Peninsular Malaysia marine environment. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**Nurul Fairuz Diyana Bahrudin, Mohd Azmi Ismail, Amry Amin Abas** and Umar Hamzah, The use of GPR technique in the slope stability survey at radar Doppler, terminal Bukit Tampoi, Dengkil, Selangor. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**O. Noraishah, M. H. Nor Pa'iza, M. Y. Juhari, A. K. A. Mior, A. M. Airwan, Y. Roslan, M. Z. Rasif, Haerie H. Rabaei, M. Ainul, A. Nurliyana and J. Maziah**, Comparisons of radiotracer with other techniques for flow measurement study. Seminar R&D 2010. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

P. Soolmaz, S. Kamaruzaman, V. Ganesan, **M. Azhar and H.Rahim**, Evaluation of mutant population in MR219 rice for blast resistance. National Rice Conference, Lumut, Perak, 28-30 Jun 2010.

**Phongsakorn Prak Tom, Tonny Anak Lanyau, Ahmad Nabil Ab Rahim and Yusof Abdullah,** Study of radiography and hardness of aluminum 6061-T6 pipe used in primary cooling system of PUSPATI TRIGA reactor. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Phua Choo Kwai Hoe and Khairuddin Abdul Rahim,** Moden multifunctional liquid biofertiliser as an innovative agronomic input for modern agriculture. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Rida Tajau, Wan Md Zin Wan Yunus, Khairul Zaman Hj. Mohd. Dahlan, Mohd. Hilmi Mahmood, Kamaruddin Hashim, Flora Sim and Sharila Muhamad Faizal,** Synthesis of acrylated palm oil nanoparticles using microemulsion polymerisation initiated by gamma. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Roha Tukimin, Rozaimah Abdul Rahim and Wan Saffiey Wan Abdullah,** Electromagnetic field study around the WiMAX broadband facility. 4<sup>th</sup> International Symposium on Broadband Communication (ISBC), Melaka, 11-14 Jul 2010.

**Roha Tukimin, Wan Nor Suhaila Wan Aziz, Rozaimah Abd Rahim and Wan Saffiey Wan Abdullah,** Preliminary study : Extremely low frequency electromagnetic field (ELF- EMF) effects on the growth of plant. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Ros Anita Ahmad Raml, Norimah Yusof, Foziah Ali and Zainab Harun,** Decontamination of dried *Phyllanthus niruri* (Dokong anak) and *Labisa pumila* (Kacip Fatimah) using gamma irradiation, Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Rosli Darmawan,** Dose exposure work planning using DMU kinematics tools. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Rosnani Abdul Rashid, Mat Rasol Awang, Hassan Hamdani Hassan Mutaaat, Mohd Meswan Maskom** and Nurulhuda Atahar, Growth performance of commercial temperature mushroom *Agaricus bisporus* and *Hypsizgus* sp. at our local environment. Seminar R&D. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Rusli Ibrahim,** Mutation breeding and biotechnology program at Malaysian Nuclear Agency. Colloquium University Malaya, Universiti Malaya, Kuala Lumpur, 29 Oct. 2010.

**Rusli Ibrahim, Siti Mariam Mohd Nahar, Siti Hajar Mohd Nahar, Abdul Rahim Harun, Azhar Mohamad, and Sobri Hussein.** Novel technologies using radiation and somatic embryogenesis for kenaf improvement. Seminar R&D. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

S. Ashkani, M. Y. Rafii, **I. Rusli**, M. Sariah, A. Siti Nor Akmar and **H. Abdul Rahim**, Application of DNA marker technology for genetic analysis of blast disease resistance in rice (*Oryza sativa*. L). ICFSDCT, Universiti Putra Malaysia, Serdang, 5-7 Jul 2010.

**S.R. Mohd Kamarudin, M. Daud, N.U. Saidin, Z. Samsu, A. Muhamad, M.S. Ripin, R. Rejab and M.S. Sattar,** Effect of heat treatment on the corrosion behavior of Al-Zn alloys in seawater. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12– 15Oct 2010.

Sadegh Ashkani, Mohd Rafii Yusop, Sariah Meon, Siti Nor Akmar Abdullah, **Rusli Ibrahim** and **Abdul Rahim Harun**, Identification of microsatellite markers suitable for marker assisted selection of *Pi* genes conferring resistance to *Pyricularia grisea* pathotypes in Malaysia rice cultivar. National Rice Conference 2010, Lumut, Perak. 28-30 Jun 2010.

**Sakinah Ariffin, Azhar Mohamad, Affrida Abu Hassan and Zaiton Ahmad,** Flower morphology of *Dendrobium sonia* mutants. Seminar R&D. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2006.

**Salahbiah Abdul Majid, Zaiton Ahmad, Mohd Rafaie Abdul Salam, Nurhayati Irwan, Affrida Abu Hassan** and **Rusli Ibrahim**, Propagation of *Aquilaria malaccensis* seedlings through tissue culture techniques. Seminar R&D. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2006.

**Salmah Moosa,** Phytochemical and antioxidant screening of extracts of *Aquilaria malaccensis* leaves. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Salmah Moosa, Ros Anita Ahmad Ramli and Norimah Yusof**, Effects of gamma irradiation on total chemical profiles of selected herbs. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Sarada Idris, Zulkafli Ghazali**, Shamshad Ahmed and **Mohd Suhaimi Jusoh**, Gemstone enhancement by electron beam irradiation: A preliminary study. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 2010.

**Sarizah Mohamed Nor, Siti Hawa Md Zain, Muhd Izham Ahmad dan Izhan Ismail**, Poster pembangunan sistem pembilang nuklear untuk kemudahan ujian plateau pembekal voltan tinggi pengesan jenis sintilasi. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Seri Chempaka Mohd. Yusof** dan **Foziah Ali**, Pembangunan pelembap bibir berherba mesra pengguna melalui teknologi radiasi. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Shakirah Abd. Shukor**, How Siew Eng dan Mustapha Salleh, Kajian fitokimia dan bioaktiviti ke atas *Tinospora crispa* (patawalii). Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oct. 2010.

**Sheriffah Noor Khamseah Al-Idid Syed Ahmad Idid**, Nuclear power: The roles, functions and opportunities for research institutes - An overview and recommendations. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Siti A'iasah Hashim, Mohd Sidek Othman, Shari Jahar, Sarada Idris, Naurah Md Isa and Muhamad Zahidee Taat**, Commercialising ALURTRON's electron beam irradiation services. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Siti A'iasah Hashim, Muhamad Zahidee Taat, Shari Jahar and Ayub Mohamad**, Operation and maintenance of electron beam machines: Nuclear Malaysia experience. NuSTEC, UNITEN, Kajang, 4 Aug. 2010.

**Siti Zulaiha Hairaldin**, Wan Md Zin Wan Yunus and Norazowa Ibrahim, Effect addition of organoclay on thermal properties of polylactide/polycaprolactone (PLA/PCL) nanocomposite. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Syahirah Abdul Rahman, Phongsakorn Prak Tom, Wan Abd Hadi Wan Abu Bakar and Shaharum Ramli**, Case study: Application of project management techniques for construction of nuclear power plant in Malaysia. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Syirrazie Che Soh@Shaari**, Stepper motor controlling using parallel port communication. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Tonny Anak Lanyau, Mohd Fazli Zakaria, Zaredah Hashim, Mohd Fairus Abdul Farid and Mohammad Suhaimi Kassim**, Replacement of PUSPATI TRIGA Reactor primary cooling system and safety considerations. NuSTEC, UNITEN, Kajang, 4-5 Aug. 2010.

**Tonny Lanyau, Mohd Fazli Zakaria, Zaredah Hashim, Ahmad Nabil Ab Rahim and Mohammad Suhaimi Kassim**, Conceptual design of PUSPATI TRIGA Reactor (RTP) spent fuel storage rack. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Wan Zakaria Wan Muhammad Tahir, Juhari Mohd Yusof and Johari Abdul Latif**, A critical review of seepage losses from agricultural irrigation canal. system: How can nuclear techniques help? MANCID Annual Conference, Kota Bharu, Kelantan, 6-7 Feb. 2010.

**Yii Mei-Woo, Nurul Assyikeen Md. Jaffary and Zaharudin Ahmad**, Radiation risk from natural radioactivity in the sediment of the east coast Peninsular Malaysia exclusive economic zone. SKAM-23, Kuala Terengganu, 4-6 Oct. 2010.

**Z. Hashim, F. Mohd Taha and M. Abd. Majid**, Application of combined heat and power in Malaysia industrial sector. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Z. Masood, A. S. Ligam, and N. Ramli**, Monitoring operational safety parameters at the PUSPATI TRIGA Reactor: Practices and Findings. NuSTEC, UNITEN, Kajang, Malaysia, 4-5 Aug. 2010.

**Z. Masood**, and **N. Ramli**, Safety, Security and Safeguards (3S): Implementation and challenges at the PUSPATI TRIGA Reactor Facility. NuSTEC, UNITEN, Kajang, Malaysia, 4-5 Aug. 2010.

---

**Z. Samsu, M. Daud, S. R. Mohd Kamarudin, A. Muhamad, N. U. Saidin, M. S. Ripin, M. S. Sattar, and R. Rejab,** Microscopic observation of pattern attack for different chemical composition of aluminium alloy sacrificial anode by aggressive ions on finished surface. *4<sup>th</sup> Malaysian Powder Metallurgy and Malaysian Metallurgical Conference*, Penang, 22–23 Nov 2010.

**Z. Samsu, M. Daud, S. R. Mohd Kamarudin, N. U. Saidin, A. Muhamad, M. S. Ripin, R. Rejab, and M. S. Sattar,** Microscopic observation of pattern attack by aggressive ions on finished surface of aluminium alloy sacrificial anode, Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Z. Samsu, M. Daud, S. R. Mohd Kamarudin, A. Muhamad, N. U. Saidin, M. S. Ripin, M. S. Sattar and R. Rejab,** Effect of sea water temperature on the anode capacity, MTec Colloquium, 2010.

**Zainudin Jaafar, Mohd Arif Hamzah, Fadil Ismail, Mahmud Hamid, Abu Bakar Mhd Ghazali** and Izyan Fatin Dalila Zulkifli, Pembaharuan sistem pengautomasi pengendalian sampel untuk analisis neutron tertunda di Reaktor TRIGA PUSPATI. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Zainudin Jaafar, Mukhlis Mokhtar** dan **Abu Bakar Mhd Ghazali**, Kawalan peralatan dan pemerolehan data untuk sistem pembilang nuklear berasaskan komputer peribadi (PC). NuSTEC, UNITEN, Kajang. 4-5 Ogos 2010.

**Zainudin Jaafar, Mukhlis Mokhtar** dan **Abu Bakar Mhd Ghazali**, Kawalan peralatan dan pemerolehan data untuk sistem pembilang nuklear berasaskan komputer peribadi (PC). Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Zaiton Ahmad, Sakinah Ariffin, Ros Anita Ahmad Ramli**, Mohd Nazir Basiran and **Affrida Abu Hassan**, Mutation breeding of *Dendrobium* orchids for insect resistance. Seminar R&D. Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Zal U'yun Wan Mahmood, Che Abd. Rahim Mohamed, Yii Mei Woo** and **Zaharudin Ahmad**, Determination of 210Pb in marine sediment core: a comparison between alpha and gamma techniques. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oktober, 2010.

**Zal U'yun Wan Mahmood, Zaharudin Ahmad, Che Abd. Rahim Mohamed** and **Abdul Kadir Ishak**, Different techniques of excess 210Pb application for sedimentation rate estimation in the Sarawak and Sabah coastal waters. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Oktober, 2010.

**Zalina Laili, Muhamat Omar, Mohd Zaidi Ibrahim, Mohd Abd Wahab Yusof, Julia Abdul Karim** and **Nik Marzukee Nik Ibrahim**, Characterisation of spent ion exchange resins from PUSPATI TRIGA reactor Nuclear Malaysia. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Zaredah Hashim, Mohd Fairus Abdul Farid, Tonny Anak Lanyau, Syahirah Abdul Rahman, Mohd Fazli Zakaria, Ariff Shah Ismail** and **Mohammad Suhaimi Kassim**, Thermal hydraulic parameter studies of heat exchanger for the PUSPATI research reactor. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Zareen Khan Abdul Jalil Khan, Mohd Idris Taib, Izhar Abu Husin** and **Nurfarhana Ayuni**, Comparison study on in-core neutron detector for online neutron flux mapping of research reactor and power reactor. Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Zareen Khan Abdul Jalil Khan, Mohd Idris Taib, Izhar Abu Hussin, Nurfarhana Ayuni Joha** and **Roslan Md Dan**, A digitised wide range channel for new instrumentation and control system of PUSPATI TRIGA Reactor (RTP), Seminar R&D, Agensi Nuklear Malaysia, Bangi, Selangor, 12-15 Okt. 2010.

**Zarina Masood** and **Nurhayati Ramli**, Safety, security and safeguards (3S): implementation and challenges at the PUSPATI TRIGA Reactor facility. NuSTEC, UNITEN, Kajang, 4-5 Ogos 2010.

**Zarina Masood, Alfred Sanggau Ligam** and **Ariff Shah Ismail**, Monitoring operational safety parameters at the PUSPATI TRIGA reactor: Practices and findings. NuSTEC, UNITEN, Kajang, 4-5 Ogos 2010.