



**JADWAL ACARA / PROGRAM AGENDA**

**Seminar Nasional ke-4 Teknologi Energi Nuklir (SENTEN-2017)**

**The 2<sup>nd</sup> International Conference on Nuclear Energy Technologies and Sciences (ICoNETS-2017)**

**The 4<sup>th</sup> International Symposium on Smart Material and Mechatronics (ISSMM-2017)**

**Kamis: 12 October 2017, Makassar, Sulawesi Selatan – Indonesia**

Thursday, 12 October 2017	08.00-08.30	Registration			
	08.30-08.40	Welcome Dance: Tarian 4 Etnis			
	08.40-08.50	Safety Induction and Sing National Anthem			
	08.50-09.00	Welcome Speech by Prof. Dr. Dwia Aries Tina Pulubuhu, M.A (Rector of Hasanuddin University, UNHAS)			
	09.00-09.10	Welcome Speech and Opening Address by Prof. Dr. Djarot Sulistio Wisnubroto (Chairman of National Nuclear Energy Agency, BATAN)			
	09.10-09.20	Penandatanganan Piagam Kerja sama antara Kepala Batan dengan Rektor UNHAS tentang pendidikan, penelitian, pengabdian kepada masyarakat dan pengembangan iptek nuklir			
	09.20-10.50	Plenary I Moderator: Dr. Jalaluddin (UNHAS) Secretary: Dr. Hendro Tjahyono (BATAN)			
		Keynote Speech I <i>The Nuclear Technology Innovation in Supporting the Future National Energy Security</i> by Prof. Dr. Djarot Sulistio Wisnubroto (Chairman of National Nuclear Energy Agency, BATAN)			
		Keynote Speech II <i>The Regulatory Body Readiness for the Implementation of the first NPP in Indonesia</i> by Prof. Dr. Jazi Eko Istiyanto (Chairman of Nuclear Energy Regulatory Agency, BAPETEN)			
		Keynote Speech III <i>The University Contribution for Nuclear Technology Application in East Region of Indonesia</i> by Prof. Dr. Dwia Aries Tina Pulubuhu, M.A (Rector of Hasanuddin University, UNHAS)			
		Panel Discussion			
	10.50-11.05	Morning Break and POSTER (P-1 s/d P-107) & Exhibition SESSION			
	11.05-11.15	Welcome Remarks by Mr Richard Supriyadi (Deputy Director of ROSATOM Southeast Asia)			
	11.15-12.55	Plenary II Moderator: Dr. Geni Rina Sunaryo, M.Sc Sekretaris: Dr. Muh. Syahid			
		Keynote Speech IV <i>Research and Development on High Temperature Gas Cooled Reactors and IAEA Supports to Countries Embarking on HTGRs</i> by Frederik Reitsma (Division of Nuclear Power IAEA)			
		Keynote Speech V <i>Development of Omnidirectional Mobile Platform Using Active Dual-wheel Cater Modules and a Rocker-bogie Suspension System</i> by Prof. Keigo WATANABE (Okayama University, Japan)			
		Keynote Speech VI <i>Development of Rare-Earth Element Industry</i> by Dr. Ir. Trenggono Sutioso, MM			
		Keynote Speech VII <i>Design Development of RDE Merah Putih</i> by Dr. Topan Setiadipura, M.Si (BATAN)			
		Panel Discussion			
		Press Conference			
	12.55-14.00	LUNCH and POSTER (P-1 s/d P-107) & Exhibition SESSION			
	PARALEL SESSION				
		Room#1	Room#2	Room#3	Room #4
	Moderator	Dr. Julwan H. Purba	Dr. Jalaluddin	Dr. Mulya Juarsa	Dr. Muhammad Kadir
	Sekretaris	UNHAS	Drs. Sri Kuntjoro	UNHAS	Jati Susilo, M.Eng
	14.00-14.15	Invited Spaker: Prof. Dr. Jung Jae-cheon KINGS Korea	Invited Spaker: Prof. Akio Gofuku, OKAYAMA Univ.Japan	O-1: Deswandri	O-3: M.B. Setiawan
	14.15-14.30			O-2: Sudarno	O-4: Ihda Husnayani
	14.30-14.45	O-5: Sigit Santoso	O-7: T.J. Suryono	O-9: Hendri Van Hoten	O-11: K. Motonaka
14.45-15.00	O-6: Restu Maerani	O-8: Iswadi Nur	O-10: Adi Maulana	O-12: Rafiuddin Syam	
15.00-15.15	Coffee Break				
Moderator	Dr. Adi Maulana	Ir. Sriyana, M.Eng	Dr. Muh Syahid	Drs. Amir Hamzah	
Sekretaris	Arum Puni, ST, MT	UNHAS	Abdul Hafid, ST, MT	UNHAS	
15.15-15.30	O-13: Samuel Izaak L.	O-17: S. Nishihta	O-21: Munawar	O-25: M. As'adi	
15.30-15.45	O-14: H.Yudhi Irwanto	O-18: Rusdi Nur	O-22: Mulya Juarsa	O-26: Andi Amijoyo M.	
15.45-16.00	O-15: T. Imahama	O-19: M. Iqbal	O-23: Simon Ka'ka	O-27: Kamaruddin	
16.00-16.15	O-16: Rahimuddin	O-20: Rafiuddin Syam	O-24: Adi Tonggihroh	O-28: Ruslan Buana	
16.15-16.30	Closing Address				

## SENTEN/ICoNETS/ISSSM 2017 - Parallel Sessions

### ROOM#1

Moderator: Dr. Julwan H. Purba		Sekretaris: UNHAS	
No	Time	Paper Code	Presentation Title
1.	14.00-14.15	-	<b>Invited Speaker:</b>
2.	14.15-14.30		<b>NPP ENGINEERING EDUCATION IN KINGS</b> <i>Prof. Dr. Jung Jae-cheon (KINGS Korea)</i>
3.	14.30-14.45	<b>O-5</b>	<b>OPERATOR SUPPORT SYSTEM DESIGN FOR THE OPERATION OF RSG-GAS RESEARCH REACTOR</b> <i>S Santoso, J Situmorang , S Bakhri, M Subekti, G.R Sunaryo</i>
4.	14.45-15.00	<b>O-6</b>	<b>V&amp;V PLAN FOR ESF-CCS BASED FPGA USING SYSTEM ENGINEERING APPROACH</b> <i>Restu Maerani, Joyce Mayaka, Mohamed El Akrat, Jung Jae Cheon</i>
5.	15.00-15.15	<b>Coffee Break</b>	
Moderator: Prof. Keigo Watanabe		Sekretaris: Arum Puni, ST.,MT.	
6.	15.15-15.30	<b>O-13</b>	<b>THE ULTIMATE STRENGTH OF DOUBLE HULL OIL TANKER DUE TO GROUNDING AND COLLISION</b> <i>Samuel Izaak Latumahina, Ganding Sitepu, Muhammad Zubair Muis Alie</i>
7.	15.30-15.45	<b>O-14</b>	<b>DEVELOPMENT OF AUTONOMOUS CONTROLLER SYSTEM OF HIGH SPEED UAV FROM SIMULATION TO READY TO FLY CONDITION</b> <i>Herma Yudhi Irwanto</i>
8.	15.45-16.00	<b>O-15</b>	<b>A METHOD FOR CALCULATING THE AMOUNT OF MOVEMENTS TO ESTIMATE THE SELF-POSITION OF MANTA ROBOTS</b> <i>Takuya Imahama, Keigo Watanabe, Kota Mikuriya and Isaku Nagai</i>
9.	16.00-16.15	<b>O-16</b>	<b>DESIGN OF OMNI DIRECTIONAL REMOTELY OPERATED VEHICLE (ROV)</b> <i>Rahimuddin, Hasnawiya Hasan, Haryanti A Rivai, Yanu Iskandar, Claudio P</i>
10.	16.15-16.30	<b>Closing Address</b>	

## SENTEN/ICoNETS/ISSSM 2017 - Parallel Sessions

### ROOM#2

Moderator: **Dr. Jalaluddin**      Sekretaris: **Drs. Sri Kuntjoro**

No	Time	Paper Code	Presentation Title
1.	14.00-14.15	-	<b><u>Invited Speaker:</u></b> <b>COUNTER ACTION PROCEDURE GENERATION IN AN EMERGENCY SITUATION OF NUCLEAR POWER PLANTS</b> <i>Prof. Akio Gofuku OKAYAMA Univ.Japan</i>
2.	14.15-14.30		
3.	14.30-14.45	<b>O-7</b>	<b>PRELIMINARY INVESTIGATION OF TIME REMAINING DISPLAY ON THE COMPUTER-BASED EMERGENCY OPERATING PROCEDURE</b> <i>T J Suryono and A Gofuku</i>
4.	14.45-15.00	<b>O-8</b>	<b>DESIGN OF FISHING BOAT FOR PELABUHANRATU FISHERMEN AS ONE OF EFFORT TO INCREASE PRODUCTION OF CAPTURE FISHERIES</b> <i>Iswadi Nur, Purwo Joko Suranto</i>
5.	15.00-15.15	<b>Coffee Break</b>	
Moderator: <b>Ir. Sriyana, M.Eng.</b> Sekretaris: <b>UNHAS</b>			
6.	15.15-15.30	<b>O-17</b>	<b>MAP GENERATION IN UNKNOWN ENVIRONMENTS BY AUKF-SLAM USING LINE SEGMENT-TYPE AND POINT-TYPE LANDMARKS</b> <i>Sho Nishihta, Shoichi Maeyama, and Keigo Watanebe</i>
7.	15.30-15.45	<b>O-18</b>	<b>SUSTAINABLE MANUFACTURING BY CALCULATING THE ENERGY DEMAND DURING TURNING OF AISI 1045 STEEL</b> <i>Rusdi Nur, Baso Nasrullah and Asmeati</i>
8.	15.45-16.00	<b>O-19</b>	<b>THE STUDY OF PRODUCTION PERFORMANCE OF WATER HEATER MANUFACTURING BY USING SIMULATION METHOD</b> <i>M Iqbal, OAA Bamatraf and M Tadjuddin</i>
9.	16.00-16.15	<b>O-20</b>	<b>DESIGN MULTI-SIDES SYSTEM UNMANNED SURFACE VEHICLE (USV) ROCKET</b> <i>Rafiuddin Syam, Onny Sutresman, Abdullah Mappaita, Ilyas Renreng, Amiruddin, Ardi Wiranata</i>
10.	16.15-16.30	<b>Closing Address</b>	

## SENTEN/ICoNETS/ISSSM 2017 - Parallel Sessions

### ROOM#3

Moderator: **Dr. Mulya Juarsa** Sekretaris: **UNHAS**

No	Time	Paper Code	Presentation Title
1.	14.00-14.15	O-1	<b>RELIABILITY ANALYSIS OF RSG-GAS PRIMARY COOLING SYSTEM TO SUPPORT AGING MANAGEMENT PROGRAM</b> <i>Deswandri, M.Subekti, Geni Rina Sunaryo</i>
2.	14.15-14.30	O-2	<b>SENSOR FAILURE DETECTION OF FASSIP SYSTEM USING PRINCIPAL COMPONENT ANALYSIS</b> <i>Sudarno, Mulya Juarsa, Kussigit Santosa, Deswandri, Geni Rina Sunaryo</i>
3.	14.30-14.45	O-9	<b>OPTIMIZATION OF PARAMETERS FOR MANUFACTURE NANOPOWDER BIOCERAMICS AT MACHINE PULVERISETTE 6 BY TAGUCHI AND ANOVA METHOD</b> <i>Hendri Van Hoten, Gunawarman, Ismet Hari Mulyadi, Afdhal Kurniawan Mainila dan Putra Bismantoloa</i>
4.	14.45-15.00	O-10	<b>STUDY ON GOLD AND BASE METAL OCCURRENCE IN ULUWAI PROSPECT, WESTERN LATIMOJONG MOUNTAIN, SOUTH SULAWESI</b> <i>Adi Maulana, Asri Jaya, Akira Imai</i>
5.	15.00-15.15	<b>Coffee Break</b>	
Moderator: <b>Dr. Muh Syahid</b> Sekretaris: <b>Abdul Hafid, ST, MT.</b>			
6.	15.15-15.30	O-21	<b>THE EFFECTS OF SHIELDED METAL ARC WELDING (SMAW) WELDING ON THE MECHANICAL CHARACTERISTICS WITH HEATING TREATMENT IN S45C STEEL</b> <i>Munawar, Hammada Abbas, Ahmad Yusran Aminy</i>
7.	15.30-15.45	O-22	<b>FLOW RATE AND TEMPERATURE CHARACTERISTICS IN STEADY STATE CONDITION ON FASSIP-01 LOOP DURING COMMISSIONING</b> <i>M Juarsa, Giarno, A. N. Rohman, G.B. Heru K., J.P. Witoko, D.T. Sony Tjahyani</i>
8.	15.45-16.00	O-23	<b>THE PNEUMATIC ACTUATORS AS VERTICAL DYNAMIC LOAD SIMULATORS ON MEDIUM WEIGHTED WHEEL SUSPENSION MECHANISM</b> <i>Simon Ka'ka, Syukri Himran, Ilyas Renreng and Onny Sutresman</i>
9.	16.00-16.15	O-24	<b>GEOLOGICAL STUDY AND REGIONAL DEVELOPMENT OF MAMBERAMO RAYA DISCTRICT OF PAPUA PROVINCE, INDONESIA</b> <i>Adi Tonggiroh, Asri Jaya HS, Ulva Ria Irfan</i>
11.	16.15-16.30	<b>Closing Address</b>	

## SENTEN/ICoNETS/ISSSM 2017 - Parallel Sessions

### ROOM#4

Moderator: **Dr. Muhammad Kadir** Sekretaris: **Jati Susilo, M.Eng**

No	Time	Paper Code	Presentation Title
1.	14.00-14.15	O-3	<b>PRELIMINARY ANALYSIS OF HIGH-FLUX RSG-GAS TO TRANSMUTE AM-241 OF PWR'S SPENT FUEL IN ASIAN REGION</b> <i>M Budi Setiawan and S Kuntjoro</i>
2.	14.15-14.30	O-4	<b>KR-85M ACTIVITY AS BURNUP MEASUREMENT INDICATOR IN A PEBBLE BED REACTOR BASED ON ORIGEN2.1 COMPUTER SIMULATION</b> <i>I Husnayani, P M Udiyani, S Bakhri, G R Sunaryo</i>
3.	14.30-14.45	O-11	<b>A SUB-TARGET APPROACH TO THE KINODYNAMIC MOTION CONTROL OF A WHEELED MOBILE ROBOT</b> <i>Kimiko Motonaka*, Keigo Watanabe**, and Shoichi Maeyama**</i>
4.	14.45-15.00	O-32	<b>PRELIMINARY DEVELOPMENT OF ONLINE MONITORING ACOUSTIC EMISSION SYSTEM FOR THE INTEGRITY OF RESEARCH REACTOR COMPONENTS</b> <i>S Bakhri<sup>1</sup>, E Sumarno<sup>1</sup>, R Himawan<sup>1</sup>, T Y Akbar<sup>2</sup>, M. Subekti<sup>1</sup>, G. R. Sunaryo<sup>1</sup></i>
5.	15.00-15.15	<b>Coffee Break</b>	
Moderator: <b>Drs. Amir Hamzah</b> Sekretaris: <b>UNHAS</b>			
6.	15.15-15.30	O-25	<b>ANALYZE EXPERIMENT FOR VIGAS AND PERTAMAX TO PERFORMANCE AND EXHAUST GAS EMISSION FOR GASOLINE MOTOR 2000CC</b> <i>Muhamad As'adi; Diachirta Chrisna Ayu Dwiharpini Tupan</i>
7.	15.30-15.45	O-26	<b>COMPUTATIONAL SIMULATION ON FACIAL EXPRESSIONS AND EXPERIMENTAL TENSILE STRENGTH FOR SILICONE RUBBER AS ARTIFICIAL SKIN</b> <i>Andi Amijoyo Mochtar</i>
8.	15.45-16.00	O-27	<b>RANCANG BANGUN OMNIWHEEL ROBOT SEBAGAI SASARAN TEMBAK DINAMIS</b> <i>Kamaruddin, Rafiuddin Syam</i>
9.	16.00-16.15	O-28	<b>POLIGON KECEPATAN DAN POLIGON PERCEPATAN END EFFECTOR PADA RANCANG BANGUN ROBOT PENGANGKUT PAKAN AYAM BROILER</b> <i>Ruslan Bauna, Rafiuddin Syam, Hairul Arsyad, Amiruddin</i>
11.	16.15-16.30	<b>Closing Address</b>	