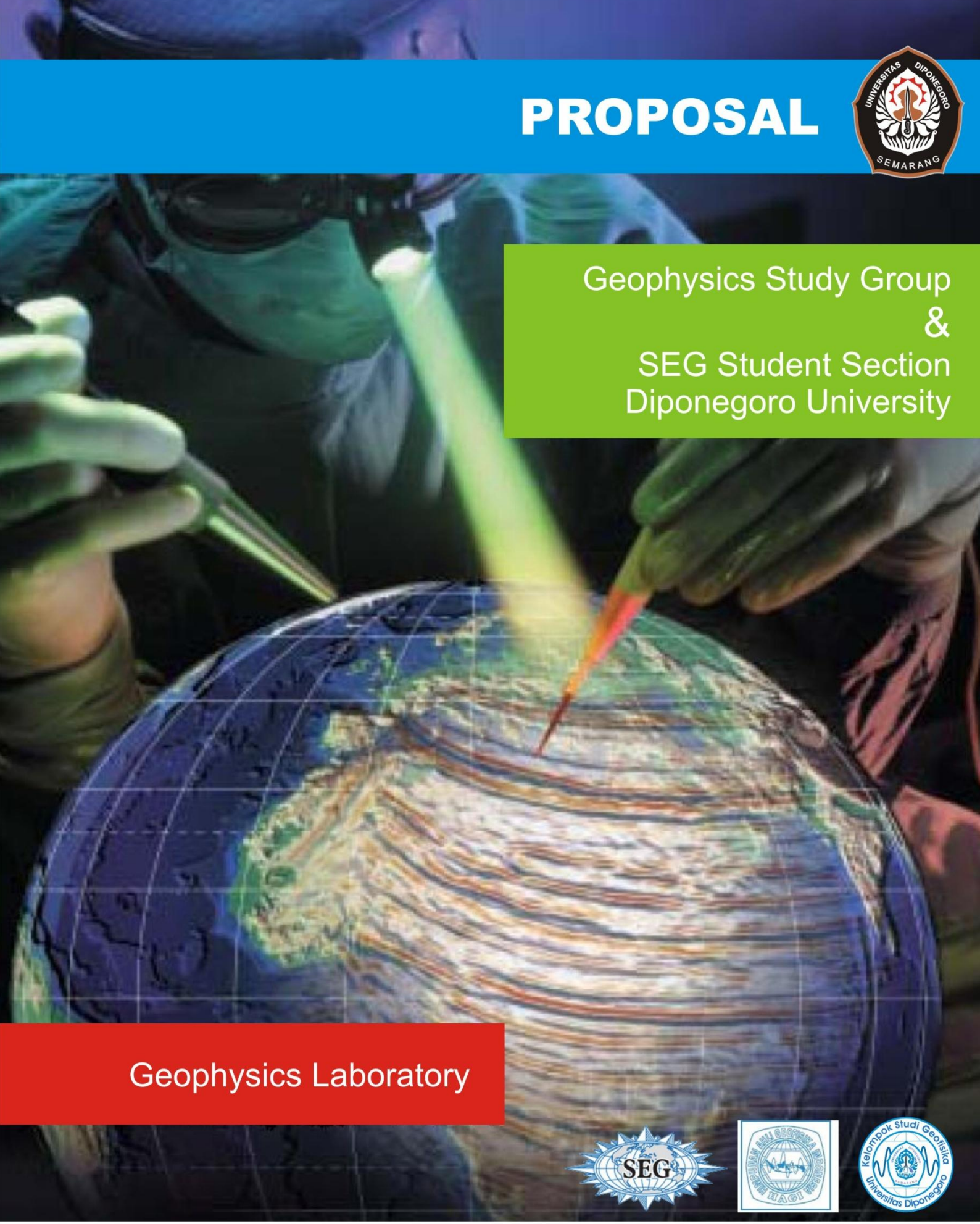
PROPOSAL



Geophysics Study Group
&
SEG Student Section
Diponegoro University

Geophysics Laboratory

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TITLE

HAGI Guest Lecture Program

BACKGROUND

Hard skill and soft skill was be compulsory requirements that must be possessed by students before they really in to industry and work competitions. Thus requirements could not be fulfill just by following daily lecture in the class. Like our body which still need supplement nutritions beside primer nutritions to keep health. Studying also need sharing information from any source that related to subjects discussions and concentration. Presented of expertise association and its student chapter/section absolutely golden ways to answer and solving discrepancy between education and industry works. Through HAGI GUEST LECTURE Program, SEG SS Diponegoro University believe it could be answer to experience thirstiness that we have felt for a long time.

There are a lot of concentration in geophysics and we vigorously to learning more and more. Seismic was becoming most influence stuff in exploration and hazards analysis. Many methods in geophysics was broadly use in exploration and mining. Acquire direct lecture from many expert in expertise association like HAGI absolutely an amazing experiences and hugely valuable knowledge.

Method	Physical parameter measured	Typical units	Relevant physical property	Typical source of anomaly	Depth of investigation
Gravity: A,B,G	Total attraction of Earth's gravity field (the vertical attraction of anomalous masses)	Milligals or gravity unit (0.1 mGal)	Density	Rock density contrasts	All
	Gradient of Earth's gravity field	Eötvös unit (10^9 gal/cm)			
Magnetic: A,B,G	Vector component, or total attraction of Earth's magnetic field	Nanotesla, or gammas	Magnetic susceptibility and remanent magnetization	Magnetic susceptibility and (or) remanent magnetization contrasts	Surface to Curie isotherm
	Gradient of Earth's magnetic field	Nanotesla/m	"	"	
Gamma-ray scintillometry: A,B,G	Rate of gamma-ray photons received	Counts/second	Quantity of K+U+Th and daughters	K+U+Th contrasts in Earth's upper 50 cm	Upper 50 cm
Gamma-ray Spectrometry: A,B,G	Rate of gamma-ray photons received and their energy	Counts/second in spectral regions. If calibrated, %K and PPM equiv. U and Th	Quantity of K,U,Th and daughters	K,U, and Th contrasts in Earth's upper 50 cm	"

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Seismic refraction: B,G Seismic reflection: B,G	Seismic energy travel time "	Meters, milliseconds "	Velocity of P or S waves "	Structures or velocity layer contrasts "	All "
Thermal bore-hole or shallow hole: B Thermal remote sensing: A,G	Thermal gradient or temperature Surface temperature day and night	Degrees C/m, degrees C Degrees C	Thermal conductivity Thermal inertia	Thermal flux or conductivity variations Thermal inertia contrasts	Hole depth About 5 cm
Electrical (see text) Direct current resistivity: B,G several variations in electrode geometry	Electrode position (m), applied current (A), and electric field (mV)	Meter, amps, millivolts; typically converted to units of resistivity (Ohm-m)	Resistivity	Lateral or vertical changes in resistivity	About 2 km
Electromagnetic methods (see text): A,B,G many variations available	Dependent on method; ratio of received to applied electric and magnetic fields	Impedance (Ohms) or dimensionless ratio; units of conductivity (Seimens/m) or resistivity (Ohm-m)	Conductivity (inverse of resistivity)	Lateral or vertical changes in Earth conductivity	Shallow (10 m; VLF; 100 m, controlled source), intermediate (1 km; AMT), deep (10 km; MT)
Mise-a-la-masse: B,G	Applied DC or low frequency AC field	Millivolts	Resistivity	Conductive body	A few hundred meters
Induced polarization: B,G	Resistivity change w/ frequency (PFE) Phase angle between transmitted and received signal(ϕ) Normalized area of part of received voltage decay curve	Percent change Milliradians Milliseconds	Interface ionic polarization	Metallic luster minerals and pore water Clay and zeolite minerals	About 2 km
Self potential: B,G	Natural near-static (direct current) electric field	Millivolts	Eh/pH electronic conductor; streaming potential and thermal coupling coefficients	Vertical change in Eh/pH caused by electronic conductor; ground water flow; thermal flux	A few hundred meters
Remote sensing: A	Reflected radiation intensity (UV, VIS, IR)	Recorded as optical or digital intensity image	Spectral reflectance, Albedo	Changes in spectral reflectance and Albedo	Surface only

(Van Blaricom, 1980)

PURPOSE

Our purpose to make this guest lectures proposal is to enrichment and completing our knowledge and experience about geophysics. Through this opportunity we believe we will have broadly paradigms. This also will making tighter connection between SEG SS Diponegoro University and HAGI instead.

PARTICIPANT

Participants of these HAGI GUEST LECTURE are member of SEG Student Section Diponegoro University and also some delegation from institution around us in Semarang who belongs in geophysics fields or its related.

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TIME AND PLACE

All of guest will be held in Geophysics Laboratory, Physics Department, Mathematics and Natural Sciences Faculty Diponegoro University. Prefer topics and estimate time we attach below:

No	Name	University/ Institution Name	Prefered Topic / Title	Estimate Prefered Time Schedule
1	SEG SS Diponegoro University	Diponegoro University	Principles and Aplications of Control Source Audio Magnetotelluric method (CSAMT) for Geophysical Analysis	2011 June, 16
2	SEG SS Diponegoro University	Diponegoro University	Exploits Magnetic Mineralogy (Methods & Principal in Geophysics Observations)	2011 July, 16/17
3	SEG SS Diponegoro University	Diponegoro University	Reserve Definition ‘’Role and Its Process in Mining Exploration’’	2011 August, 6/7
4	SEG SS Diponegoro University	Diponegoro University	Direct Current Techniques in Variety of Mineral Exploration & Geo Environmental Considerations to Various Ore Deposit Types	2011 September, 24/25
5	SEG SS Diponegoro University	Diponegoro University	Application of Gamma-Ray Method in Geophysics Exploration	2011 October, 22/23
6	SEG SS Diponegoro University	Diponegoro University	Bore hole/Shallow Probe Methods and Thermal Gradient Monitoring in Geophysical & Exploration Surveys	2011 November, 19/20
7	SEG SS Diponegoro University	Diponegoro University	Applied Induced Polarization In Order to Disseminated Conductsing Minerals	2011 December, 17/18

Committee Arrangement
HAGI Guest Lecture Program

Protector	Dean of Mathematics and Natural Science Faculty Diponegoro University Dr. Muhammad Nur, DEA NIP. 1957 1126 1990 01 1 001
Advisor	Vice Dean for Accademic Affairs of Mathematics and Natural Science Faculty Diponegoro University Dr. Agus Subagio, M.Si NIP. 1971 0813 1995 12 1 001
Guarantor	Chief of Physics Department Mathematics and Natural Science Faculty Diponegoro University Drs. Tony Yulianto, MT NIP.1964 0719 1993 03 1 002 Faculty Advisor for SEG SS Diponegoro University Ir. Hernowo Danusaputro, MT NIP. 1954 0108 1986 03 1 001
Steering Committee	Drs. Dwi P. Sasongko, M.Si NIP. 1958 0905 1987 03 1 002 Dr. Rahmat Gernowo NIP. 1965 1123 1994 03 1 003 Gatot Yulianto, M.Si NIP. 1972 0722 1997 02 1 001 Rina Dwi Indriana, M.Si NIP. 1972 0102 1998 03 2 001

Dr.Eng. Agus Setyawan, M.Si
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Dr. Eng. Udi Harmoko, M.Si
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Secretary	Muhammad Fahmi	J2D 007 027
Treasurer	Sheyza Rery D.A	24040110110014
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	M. Ulin Nuha A	J2D 008 036
	Retno Septiani	J2D 008 045
	Galih Candra K	J2D 008 018
	Ophie Thio Rendy	J2D 009 007
Public Relation Section	Anin Naim	J2D 007 007
	Bagus Prasetyo	J2D 008 008
	Nuraeni	J2D 008 043
	Irfan Roismanto	J2D 008 027
	Nurul Firdausi N	J2D 009 035
	Muhammad Nur H	J2D 008 035
Equipment Section	M. Akbar Triana	J2D 008 034
	Yodhabumi A	J2D 009 038
	Rio Gunawan	J2D 007 033
Consumption Section	Aprilia Widya B	J2D 007 008
	Dewi Maryaningsih	J2D 008 012
	Imroatun Nikmah	J2D 008 023
	Anna Sofiana	J2D 007 006
	Pertiwi	J2D 009 001
	Noviana Fransiska	J2D 008 040
	Sigit Darmawan	J2D 008 052

No	Type of Outcome	Unit Price (Rp)	Volume	Total (Rp)
1	Publications	700,000	1	700,000
3	Seminar's kit	180,000	50	9,000,000
4	Cleanliness	700,000	1	700,000
5	Documentations	500,000	1	500,000
6	Committee Equipments	500,000	1	500,000
7	Secretariat	500,000	1	500,000
8	Souvenir	1,000,000	1	1,000,000
9	Decoration	700,000	1	700,000
10	Consumtion	140,000	50	7,000,000
11.	*Speakers Fee	-	-	-
	Total			**20,600,000**

*accommodation and transportation costs will covered by HAGI

CLOSING

Here all of our proposal for **HAGI Guest Lecture Program.** We really apologize if there were improper things. We really expected that HAGI would admit and approve our proposal.

Semarang, April 19th 2011

President of SEG SS
Diponegoro University

Chief Committee of
HAGI Guest Lecture
Program

Adhita Meryanto
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Reyhan Priyotama
NIM. J2D 007 031

Accussed by,

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Mathematics and Natural Science
Faculty

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Coordinator HAGI of
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5	Anjar Oktikawati	J2D009011
6	Arga Brahmantyo	J2D009027
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8	Bagus Sajiwo	J2D009033
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23	Muhammad Fahmi	J2D007027
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