



TOKYO UNIVERSITY OF AGRICULTURE

HEREBY CONFERS UPON

Salas, Felix Managbanag

OF The Republic of the Philippines

BORN 24-May-62

THE DEGREE OF

DOCTOR OF PHILOSOPHY

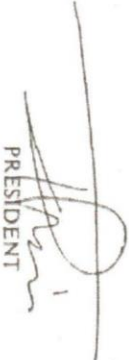
IN THE FIELD OF

Bioregulation Studies

IN RECOGNITION OF SCIENTIFIC RESEARCH
WHICH WAS FINALIZED BY SUBMISSION OF A DISSERTATION
ENTITLED

Behaviour and Phytoavailable Estimates of Heavy
Metals in Long Term Sludge - Amended Soil

DATE CONFERRED 20-Mar-99
DIPLOMA NO. 260


PRESIDENT





VISAYAS STATE COLLEGE OF AGRICULTURE
VISCA, Leyte 7127-A
Philippines

Student's Name

SALAS
(Last Name)

FELIX
(First Name)

MANAGBANAG
(Middle Name)

I.D. No. 792649

PERSONAL



PERSONAL DATA

Sex: Male

Religion: Roman Catholic

Citizenship: Filipino

Date of Birth: May 24, 1962

Place of Birth: Kabalasan, Baybay, Leyte

Civil Status: Single

Home Address: Gaas, Baybay, Leyte

Parents:
Father: Ananias Salas

Mother: Celestina Managbanag-Salas

Parents Address: Gaas, Baybay, Leyte

Guardian:

Guardian's Address:

School
Sec.

EDUCATIONAL

Primary
Kabalasan Community School
Baybay, Leyte

Elementary:
Gaas Elementary School
Baybay, Leyte

Secondary:

Year	Name of School	School Year
1st	ERHS, VISCA, Baybay, Leyte	1975-76
2nd	-do-	1976-77
3rd	-do-	1977-78
4th	-do-	1978-79

ENTRANCE CREDENTIALS TO COLLEGE

	Name of School
Form 136-A	Experimental Rural High School
T.C.	
T.O.F.	
PERMIT	
NCEE SCORE	93% (1978)

OTHER UPDATED INFORMATION:

GRADUATED: BACHELOR OF SCIENCE IN AGRICULTURE (BSA),
MAJOR IN AGRICULTURAL CHEMISTRY, ON APRIL 4, 1983,
AS PER VISCA BOARD OF TRUSTEES RES. NO. 14, S. 1983,
DATED FEBRUARY 16, 1983.

CERTIFIED TRUE COPY OF THE ORIGINAL:

AMELIA P. GUEVARA
University Registrar
University of the Philippines

CERTIFIED XEROX COPY.

Jan 11. 1983

TERESITA LAO QUIRANOLA

LINDA N. MARISCAL
DISTADO



VISAYAS STATE COLLEGE OF AGRICULTURE

VISCA, Leyte 7127-A
Philippines



OFFICIAL TRANSCRIPT OF RECORD

Name Mr. FELIX M. SALAS

Course Number		Descriptive Title	Grades		Credits
			Final	Re-Exam.	
<u>VISAYAS STATE COLLEGE OF AGRICULTURE, BAYBAY, LEYTE</u>					
<u>1st Sem., 1979-80</u>					
Engl	11	Communication Skills I	1.75		3
Math	11	College Algebra	2.25		3
Educ	11	General Psychology	1.50		3
Econ	11	General Economics	2.25		3
Bio	11	General Biology	2.00		3
Chem	11	General Chemistry I	2.00		3
P.E.	11	Health and Physical Education I	1.50		2
Mil Sci	11	First Year Basic Course	1.00		1.5
<u>2nd Sem., 1979-80</u>					
Engl	12	Communication Skills II	2.00		3
Math	12	Plane Trigonometry	1.50		3
Educ	12	General Sociology	1.50		3
Bot	11	General Botany	2.00		3
Zoo	11	General Zoology	2.25		3
Chem	12	General Chemistry II	1.75		3
P.E.	12	Health and Physical Education II	1.50		2
Mil Sci	12	First Year Basic Course II	1.50		1.5
<u>Summer, 1980</u>					
Soc Sci	13	Life and Works of Rizal	2.25		3
Stat	11	Elementary Statistics	2.25		3
<u>1st Sem., 1980-81</u>					
Speech	11	Effective Speech	2.00		3
An Sci	21	Principles of Animal Science I	1.75		3
Agron	21	Fundamentals of Crop Production	1.75		3
Crop Prot	21	Principles of Crop Protection	1.75		3
Physics	11	General Physics	2.25		3
Span	11	Communication Skills I	1.25		3
Econ	12	Land Reform and Taxation	1.75		3
P.E.	13	Health and Physical Education III	1.50		2
CMT	21	Second Year Basic Course	2.00		1.5
<u>2nd Sem., 1980-81</u>					
Span	12	Communication Skills II	1.50		3
An Sci	22	Principles of Animal Science II	2.00		3
Micro	21	General Microbiology	2.25		3
Soils	21	Fundamentals of Soils and Fertilizers	1.75		3
Physics	12	General Physics II	1.75		3
Hort	22	General Horticulture	1.75		3
P.E.	14	Health and Physical Education IV	2.25		2
CMT	22	Second Year Basic Course	1.50		1.5
<u>Summer, 1981</u>					
Botany	21	Principles of Genetics	2.25		3
Soc Sci	12	Philippine History and Institution	2.00		3
<u>1st Sem., 1981-82</u>					
Chem	21	General Biochemistry	2.00		3
Soil Sci	22	Soil Fertility and Fertilizer	1.25		3
Ag Eng'g	30	Irrigation Drainage and Meteorology	1.50		3
(CONTINUED ON PAGE THREE)					

(CONTINUED ON PAGE THREE)

Grading System: 1.00 Excellent; 1.25 Highly Outstanding; 1.50 Outstanding; 1.75 Very Good; 2.00 Good; 2.25 Very Satisfactory; 2.50 Satisfactory; 2.75 Fair; 3.00 Passing; 5.00 Failure, Incomplete, Dropped, Audit; in Progress.

Credit: One unit of credit is one hour lecture or recitation, and three hours of laboratory work is equivalent to one hour lecture or recitation.

REMARKS: CERTIFIED TRUE COPY OF THE ORIGINAL:

Date Issued:

NOT VALID WITHOUT SEAL

AMELIA P. GUEVARA
University Registrar
University of the Philippines

LINDA N. MARISCAL
CHIEF STENOGRAPHER



VISAYAS STATE COLLEGE OF AGRICULTURE
VISCA, Leyte 7127-A
Philippines



OFFICIAL TRANSCRIPT OF RECORD

Name Mr. FELIX M. SALAS

Course Number	Descriptive Title	Grades		Credits
		Final	Re-Exam.	
<u>VISAYAS STATE COLLEGE OF AGRICULTURE, BAYBAY, LEYTE</u>				
<u>1st Sem., 1981-82 (Cont'd.)</u>				
Ag Chem 121	Organic Chemistry I	1.75		3
Ag Chem 133	Quantitative Inorganic Analysis	1.25		3
Ag Chem 198	Research Planning and Manuscript Preparation	1.75		3
<u>2nd Sem., 1981-82</u>				
Plt Prot 22	Pest Control	1.25		3
Ag Eng'g 22	Farm Machinery and Equipment	1.25		3
Econ 21	Farm Management	1.50		3
Spanish 13	Reading and Literature I	1.75		3
Math 101	Elementary Calculus	1.50		3
Ag Chem 122	Organic Chemistry II	1.25		3
Ag Chem 200	Undergraduate Thesis	In Progress		
<u>1st Sem., 1982-83</u>				
Spanish 14	Reading and Literature II	2.25		3
Ag Eng'g 20	Basic Farm Shop Practice	1.50		2
Ag Chem 137	Physical Chemistry	2.00		3
Ag Chem 145	Tech. Analysis of Soil Fert. and Pesticides	1.75		3
Ag Chem 141	General Biochemistry	1.25		3
Ag Chem 153	Proteins and Enzymes	2.00		3
Ag Chem 200	Undergraduate Thesis	In Progress		
<u>2nd Sem., 1982-83</u>				
Human 11	Introduction to Humanities	1.75		3
Ag Chem 144	Instrumental Methods of Analysis	1.50		3
Ag Chem 155	Advanced Biochemistry	2.00		3
Ag Chem 146	Technical Analysis of Food and Feeds	1.75		3
Ag Chem 199	Undergraduate Seminar	1.50		1
Ag Chem 200	Undergraduate Thesis	1.50		6
"Thesis"				
DETERMINATION OF NUTRIENT AND AVAILABLE NUTRIENT CONTENT OF MOLASSES, FILTER CAKE, AND RAW AND COOKED CANE CABBAGE				
GRADUATED: BACHELOR OF SCIENCE IN AGRICULTURE (BSA), MAJOR IN AGRICULTURAL CHEMISTRY, ON APRIL 4, 1983, AS PER VISCA BOARD OF TRUSTEES RES. NO. 14, S. 1983, DATED FEBRUARY 16, 1983.				
ANY ENTRY BELOW THIS LINE IS NULL AND VOID				
CERTIFIED TRUE COPY OF THE ORIGINAL:				
AMELIA P. GUEVARA University Registrar University of the Philippines				

Grading System: 1.00 Excellent; 1.25 Highly Outstanding; 1.50 Outstanding; 1.75 Very Good; 2.00 Good; 2.25 Very Satisfactory; 2.50 Satisfactory; 2.75 Fair; 3.00 Passing; 5.00 Failure, Incomplete; Dropped; Audit; In Progress.

Credit: One unit of credit is one hour lecture or recitation, and three hours of laboratory work is equivalent to one hour lecture or recitation.

REMARKS:

Date issued: APR 03 1987

NOT VALID WITHOUT SEAL

LINDA N. MARISCAL
REGISTRAR

56

Name FELIX MANAGBANAG SALAS
Student No. 85-45713 Sex Male
Date/Semester admitted June, 1985 Date & Place of Birth May 24, 1962-Baybay, Leyte
Category College Graduate Father's Name Ananias Salas
Diploma/Title/Degree B.S.A. Mother's Name Celestina Managbanag
High School/College Visayas State College of Agriculture Degree/Title/Course CERTIFICATE IN COLLEGE
Date graduated/last attended April 4, 1983 CHEMISTRY & MASTER OF SCIENCE*
NCEE Rating _____ Year Taken _____ Major *Chemistry
S.O. No.: _____ Date _____ Date graduated Oct. 24, 1986 & June 3, 1993
respectively

COLLEGIATE RECORD

Course Number	DESCRIPTIVE TITLE OF THE COURSE	Grades			Credits
		Final	Reexamina- tion/ Completion		
	Entrance credentials show: Graduation from Visayas State College of Agriculture with the degree of Bachelor of Science in Agriculture (major-Agricultural Chemistry) on April 4, 1983. Certified true copies of the official transcript of records from the above school are attached as pages 2 and 3. Records from the University of the Philippines begin on page 4.				

CERTIFIED XEROX COPY

RESITA LAG QUIRANOLI
MAN RESOURCE MGT. OFFICER 3

Remarks

Grading System: 1-Excellent; 1.5-Very good; 2-Good; 2.5-Satisfactory; 3-Pass; 4-Conditional failure;
5-Failure; Inc.-Incomplete.

Credits: One university unit of credit is one hour lecture or recitation each week for the period of a complete semester of 16 to 17 weeks. In all courses, two and a half to three hours of laboratory work, and, in technical courses, three hours of drafting or shop work, are regarded as the equivalent of one hour of recitation or lecture.

NOTE: This copy is an exact reproduction of the transcript on file with the Office of the University Registrar and is considered as an original copy when it bears the dry seal of the University and original signature in ink of the University Registrar. Any erasure or alteration made on this copy renders the whole transcript invalid.

Typed by:

Xian

Date:

11/23/93

Checked by:

Tom

Date:

11/23/93

AMELIA P. GUEVARA

156970
016691

Name FELIX MANANAG SALASStudent No. 85-45

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COLLEGIATE RECORD

COLLEGIATE RECORD		Grades		Credits
Course Number	DESCRIPTIVE TITLE OF THE COURSE	Final	Reexam- nation/ Completion	
COLLEGE OF SCIENCE				
1st Semester, 1985-1986				
Chem 123	Advanced Analytical Chemistry	Inc	2.75	3
Chem 123.1	Advanced Analytical Chemistry Laboratory	Inc	2.75	2
Chem 156	Physical Chemistry I	Inc	2.75	3
Chem 191	Chemical Literature	2.5		1
Chem 33	Organic Chemistry I	Inc	No Grade	
Chem 33.1	Organic Chemistry I Laboratory	Inc	No Grade	
2nd Semester, 1985-1986				
Chem 112	Advanced Inorganic Chemistry	Passed		3
Chem 157	Physical Chemistry II	Passed		3
Chem 159	Physical Chemistry III	Inc	Passed	3
Chem 252	Graduate Physical Chemistry Laboratory	Inc	1.75	2
Chem 34	Organic Chemistry II	Passed		3
Chem 34.1	Organic Chemistry II Laboratory	Passed		2
Summer, 1986				
Chem 145	Biochemistry	Inc	3	3
Chem 145.1	Biochemistry Laboratory	1.75		2
GRADUATE PROGRAM				
1st Semester, 1986-1987				
Chem 212	Reaction Mechanisms of Transition Metal Complexes	2		
Chem 241	Lipids and Related Systems	2		
Chem 235	Theoretical Organic Chemistry	1.5		
2nd Semester, 1986-1987				
Chem 250	Chemical Thermodynamics I	2		
Chem 223	Theoretical Analytical Chemistry	2.75		
Chem 230	Physical Organic Chemistry I	2		
Summer, 1987				
Chem 300	Master's Thesis	No Grade		
1st Semester, 1987-1988				
Chem 211	Inorganic Structures & Reaction Mechanisms	1.5		
Chem 244	Nucleic Acids & Proteins	2		
2nd Semester, 1987-1988				
Chem 292	Seminar in Analytical Chemistry	1.5		
Chem 293	Seminar in Organic Chemistry	1.25		
Summer, 1988				
Residence				
1st Semester, 1988-1989				
Residence				

Remarks

Grading System: 1—Excellent; 1.5—Very good; 2—Good; 2.5—Satisfactory; 3—Pass; 4—Conditional failure; 5—Failure; Inc.—Incomplete.

Credits: One university unit of credit is one hour lecture or recitation each week for the period of a complete semester of 16 to 17 weeks. In all courses, two and a half to three hours of laboratory work, and, in technical courses, three hours of drafting or shop work, are regarded as the equivalent of one hour of recitation or lecture.

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ISSUED BY:

Typed by: Amelia P. Guevara Date: 9/19/88
 Checked by: Amelia P. Guevara Date: 9/20/88
 Updated by: TB Date: _____
 Issued by: _____ Date: _____

Amelia P. Guevara
 University Registrar
 University of the Philippines
 11-23-88

EMETERIA P. LEE
 University Registrar

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