

Don Bosco's Contribution to Science Education in the Philippines

1954 – 2009

and beyond

*Science Teacher Training and Seminar-Workshops
Conducted by Don Bosco from 1954 - 2009*

SCIENCE AND TECHNOLOGY SEMINAR-WORKSHOPS

conducted by **DON BOSCO**

with Financial Assistance of

BISCHÖFLICHES HILFSWERK

or **MISEREOR** *of* **GERMANY**

and with cooperation

of

DECS, FAPE, CEAP, SCHOOLS, COLLEGES

AND UNIVERSITIES IN THE PHILIPPINES

1954 – 2009

The following pages contain the chronological listing, of Science and Technical Seminars conducted by Don Bosco in 47 years. The listing is definitely incomplete as many of the seminar-workshops were not documented and several other activities along this field were carried out by other Don Bosco Teams such as the CRT group in DB Mandaluyong and other groups of Teachers trainers in DB Cebu. There may be more but we don't have the documents for them.

This compilation constitutes part of Don Bosco's contribution to the improvement of science and technology teaching in the Philippines. Don Bosco put in a lot of resources in training the teachers who are already in the field with the basic idea that a good and knowledgeable teacher will produce better students.

In 1964, the then National Science Development Board (NSDB), now the Department of Science and Technology (DOST) in cooperation with Asia Foundation helped established the *Don Bosco Science Instrumentation Center (SIC)* in Don Bosco Technical College, Mandaluyong. The Center produced locally made science instrument which were sold at low cost to other schools. The designs and prototypes developed at the Center were not patented so that other local manufacturers can copy them without any legal constraint. As a matter of fact a lot of locally produced apparatuses may have their origin at the Don Bosco Science Instrumentation Center.

The teacher-training activities of Don Bosco was enhanced by the availability of science apparatuses made locally by the Don Bosco boys.

In due time the Don Bosco made science instruments made a mark in the Philippines scene. Schools, especially private ones started to patronized the Center's products because of low cost and quality that are comparable to the imported ones. When the Secondary Education Development Program (SEDP) was put in place a new subject was introduced called T. H. E. or Technology and Home Economics, Don Bosco was called upon to train the National Trainers for both Public and Private Schools (1990-1991)

The seminars conducted brought the Don Bosco Trainers to far flung corners of the Republic, from Appari to Tawi-Tawi and from cities to towns that are sometimes difficult to find in maps. Teachers from all over the entire Philippines craved to attend the Don Bosco seminar workshops. Some groups were small while other groups were very big. Don Bosco trained elementary teachers, high school teachers (mostly) and college professors. One group consisted of 72 Schools Superintendents. They too enjoyed the seminars immensely.

This compilation, aside from being a simple document, demonstrates the beneficial effect of cooperative effort. So much was done by a few for the benefit of the many teachers who in turn are doing a tremendous task of training and educating the youth of the Philippines.

The series of science-workshops for science teachers in the field was pioneered by Don Bosco priests at Don Bosco Technical Institute, Victorias, Negros Occidental. During the summer of 1954 a Don Bosco priest, Fr. John Rauh, SDB conducted the first upgrading seminar workshop for teachers from all over Region VI, which included provinces of Iloilo, Antique, Capiz, Negros Occidental and Negros Oriental. This was the first seminar conducted for teachers in the field after World War II.

This was followed by other ones in 1955, 1956 and 1958. In another Don Bosco school in Tarlac, other seminars were carried out by Fr. George Schwarz, SDB, another priest. By 1960 several seminars were conducted for the benefit of teachers from both private and public schools. This activities continued up to the present time with support from Misereor of Germany, the Catholic Educational Association of the Philippines (CEAP) and other organizations. Sometimes the government through the Department of Education, Culture and Sports (DECS) and the Department of Science and Technology (DOST) sporadically participated in this upgrading endeavor. Other cooperating groups include the PAPI, PAPT, PPS, DBEAP, NDEA, PAPSCU, Luzon Science Consortium, SMEI of USC and many others.

From 1954 to 2001, Don Bosco has trained approximately 28,000 Science teachers from Batanes to Tawi-Tawi, servicing not only the Christians communities but also the Muslims and other minorities as well.

This compilation is only a part of Don Bosco's outreach programs since other groups did and are still doing something similar for other sectors of Philippine society.

This compilation is dedicated to Fr. George Schwarz, SDB who sustained these activities up to the present time and to Fr. John Rauh, SDB (deceased) who started it all in the Philippines.

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
<u>1954</u>	Lecture Demonstration and Project Construction in Science TOPIC: Mechanics	Don Bosco Technical Institute Victoria Milling Co., Victorias, Negros Occidental	VI	Bureau of Private Schools	36	Fr. John Rauh, SDB
	NOTE:	<i>This is the very first seminar-workshop for Science Teachers held in the Philippines after World War II</i>				
<u>1955</u>	Lecture Demonstration and Project Construction in Science TOPIC: Electricity and Optics	Don Bosco Technical Institute Victoria Milling Co., Victorias, Negros Occidental	VI		47	Fr. John Rauh, SDB Mr. Nicolas Tan
<u>1959</u>						
May 27-29	Improvisation of Science Apparatus and exhibition of 50 samples of improvised science projects	San Sebastian College CM Recto, Manila	NCR		212	Fr. George Schwarz, SDB
<u>1961</u>						
Dec. 4-6	Science Seminar Workshop for Secondary Teachers	Don Bosco Academy Tarlac, Tarlac	III		25	Fr. George Schwarz, SDB
<u>1962</u>						
July 9-14	Workshop for Physics Teachers	St. Bridgitte College Batangas, Batangas	NCR		30	Fr. George Schwarz, SDB Mr. Narciso F. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
<u>1965</u>						
Sept. 2-24	Instrumentation Workshop on Natural Science	DECS Malabon	NCR	NSBD Bureau of Private Schools, Manila	32	Dr. Angeles Santos
Oct. 18-22	Instrumentation Workshop on Natural Science	Roosevelt College Marikina	NCR	BPS, NSDB Rizal District	28	Dr. Angeles Santos
Nov. 22-26	Demo and Practice Magnetism & Static Electricity	Stella Maris College Quezon City	NCR	BPS, NSDB Rizal District	25	Fr. George Schwarz, SDB
<u>1966</u>						
Jan. 17-21	Const. Workshop in National Science	Southern College Pasay	NCR	BPS, NSD	28	Fr. George Schwarz, SDB
Feb. 1-4	Const. Workshop in National Science	Don Bosco Technical College Mandaluyong City	NCR	BPS, NSD	32	Fr. George Schwarz, SDB
Mar. 1-4	Science Seminar Workshop	St. Joseph College Cavite City	IV	BPS, NSDB Rizal District	30	Fr. George Schwarz, SDB
May 9-13	Instrumentation Workshop	Epifanio delos Santos College Malabon, Rizal	NCR	BPS, NSD	40	Fr. George Schwarz, SDB Dr. Angeles Santos

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
May 26-29	Science Seminar Workshop	Don Bosco Technical College Mandaluyong, Rizal	NCR	Asia Foundation Bureau of Private Schools	45	Fr. George Schwarz, SDB Mr. Richard Nelson
Oct. 14	Science Seminar Workshop	Holy Spirit Academy Tarlac, Tarlac	III	BPS, NSDB Rizal District	34	Fr. G. Schwarz, SDB
<u>1967</u>						
Apr. 25-28	Science Seminar Workshop for Teachers	Don Bosco Technical Institute Mandaluyong	NCR	Misereor	40	Fr. G. Schwarz, SDB
May 2-5	Science Seminar Workshop for Teachers	Don Bosco Academy Pampanga	III	Misereor	27	Fr. G. Schwarz, SDB
May 9-12	Science Seminar Workshop for Teachers	Don Bosco Academy Tarlac	I	Misereor	68	Fr. G. Schwarz, SDB
May 16-19	Science Seminar Workshop	Blessed Imelda Academy Dagupan City	I	Misereor	41	Fr. G. Schwarz, SDB
May 23-26	Science Seminar Workshop	Baguio Technical School Baguio City	I	Misereor	22	Fr. G. Schwarz, SDB Mr. Richard Nelson Mr. Narciso Mefragata
May 30 June 2	Science Seminar Workshop	Divine Word College Laoag City	II	Misereor CEAP	23	Mr. Narciso Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
June 6-9	Science Seminar Workshop	St. Bridgets College Batangas, Batangas	IV	Misereor	41	Fr. G. Schwarz, SDB Mr. N. Mefragata
June 13-16	Science Seminar Workshop	San Pablo Colleges San Pablo City	IV	Misereor	45	Fr. G. Schwarz, SDB Mr. N. Mefragata
Sept. 9-16	Science Seminar Workshop	Don Bosco Academy Tarlac, Tarlac	III	Misereor	49	Fr. G. Schwarz, SDB Mr. Arturo Villegas
<u>1970</u>						
May 11-16	Science Seminar Workshop	Don Bosco Technical H. S. Cebu City	VII	Misereor	24	Fr. G. Schwarz, SDB Mr. Romeo Guzman Mr. Santiago
May 18-23	Science Seminar Workshop for Teachers	Colegio de San Jose Recoletos Cebu City	VII	Misereor	64	Fr. G. Schwarz, SDB Mr. Romeo Guzman Mr. Santiago
May 25-30	Science Seminar Workshop	Xavier University Cagayan de Oro City	X	Misereor	50	Fr. G. Schwarz, SDB Mr. Romeo Guzman Mr. Santiago
June 1-6	Science Seminar Workshop	Ateneo de Davao Davao City	XI	Misereor	50	Fr. G. Schwarz, SDB Mr. N. Mefragata
June 8-13	Science Seminar Workshop	University of Negros Occ. Recoletos (UNO-R) Bacolod City	VI	Misereor	50	Fr. G. Schwarz, SDB Mr. N. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
June 15-20	Science Seminar Workshop	Don Bosco Academy Tarlac, Tarlac	III	Misereor	50	Fr. G. Schwarz, SDB Mr. Arturo Villegas
<u>1971</u>						
Oct. 23-30	Science Seminar Workshop	College of Immaculate Conception Cabanatuan City	III	Misereor CEAP	32	Fr. G. Schwarz, SDB Mr. R. Guzman Mr. Santiago
<u>1972</u>						
Feb. 12 Mar. 18	Science Seminar Workshop	Don Bosco Academy	III	Misereor	66	Fr. G. Schwarz, SDB Mr. Arturo Villegas
May 8-12	Science Seminar Workshop	Universidad de los Caceres Naga, Camarines Sur	V	Misereor	53	Fr. G. Schwarz, SDB Mr. R. Guzman Mr. Santiago
May 22-26	Science Seminar Workshop	Regina Carmel College Malolos, Bulacan	III	Misereor	32	Fr. G. Schwarz, SDB Mr. R. Guzman Mr. Santiago
June 5-9	Science Seminar Workshop	St. Louis College San Fernando, La Union	I	Misereor	32	Fr. G. Schwarz, SDB Bro. Orendain Mr. Santiago
June 19-23	Science Seminar Workshop	Holy Spirit College Laoag City	I	Misereor	62	Fr. G. Schwarz, SDB

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
June 21 July 1	Science Seminar Workshop	Don Bosco College Seminary Canlubang, Laguna	IV	Misereor	44	Fr. G. Schwarz, SDB
1974	<i>8 Science Seminars conducted by Dr. Angeles Santos with contribution of materials and books from Fr. Schwarz.</i>		NCR	Bureau of Private Schools	302	Dr. Angeles Santos Fr. G. Schwarz, SDB
1975						
Feb. 3 Mar. 19	Science Seminar for Physics Teachers	Dalubhasaang Epifanio delos Santos	NCR	Bureau of Private Schools	37	Fr. G. Schwarz, SDB Dr. A. Santos
Apr. 7 May 15	Science Instrumentation Seminar Workshop	Philippine Normal College Taft, Manila	NCR	Misereor	97	Fr. G. Schwarz, SDB
Apr. 8 May 17	Science Instrumentation Seminar Workshop	Centro Escolar University Mendiola, Manila	NCR	Misereor	27	Dr. A. Santos Mr. N. Mefragata
Apr. 7-14	Science Instrumentation Seminar Workshop	Foundation University Dumaguete City	VII	Misereor	31	Mr. N. Mefragata Mr. R. Guzman Mr. Santiago
June 5 Sept. 25	Science Instrumentation Seminar Workshop	Don Bosco College Seminary Canlubang, Laguna	IV	Misereor	37	Fr. G. Schwarz, SDB
July 7 Sept. 29	Science Instrumentation Seminar Workshop	Don Bosco Technical Institute Makati, M. M.	NCR	Misereor	25	Fr. G. Schwarz, SDB

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Nov. 4 Dec. 3	Science Instrumentation Seminar Workshop	St. Peter's College Ormoc City	VIII	Misereor	52	Mr. N. Mefragata
<u>1977</u>						
Jan. 8 Mar. 26	Science Seminar for Physics Teachers	Don Bosco Technical College Mandaluyong City	NCR	Misereor	25	Fr. G. Schwarz, SDB
Apr. 11 May 24	Science Seminar for Physics Teachers	Epifanio delos Santos College Malabon	NCR	Misereor	25	Fr. G. Schwarz, SDB Dr. A. Santos
Oct. 17-22	Science Seminar for Physics Teachers	Notre Dame of Marbel College Koronadal, South Cotabato	XII	Misereor CEAP, BPS	69	Fr. G. Schwarz, SDB Mr. N. Mefragata
<u>1978</u>						
Aug. 22 May 19	Science Seminar for Physics Teachers	Philippine Normal College Taft, Manila	NCR	Misereor CEAP, BPS	35	Fr. G. Schwarz, SDB Bro. Cartolada
Apr. 25 May 22	Science Instrumentation Seminar Workshop	National Teachers College Manila	NCR	Misereor CEAP, BPS	41	Fr. G. Schwarz, SDB Bro. Cartagena
<u>1979</u>						
Jan. 27 Oct. 13	Science Instrumentation Seminar Workshop	Don Bosco Seminary Canlubang, Laguna	IV	Misereor CEAP, BPS	25	Fr. G. Schwarz, SDB
Apr. 17 May 11	Science Instrumentation Seminar Workshop	De la Salle University Taft, Manila	NCR	Misereor CEAP, BPS	49	Mr. N. Mefragata

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Apr. 27 May 5	Science Instrumentation Seminar Workshop	Don Bosco Seminary Canlubang, Laguna	IV	Misereor CEAP, BPS		Fr. G. Schwarz, SDB Mr. A. Villegas
May 7-25	Science Institute in Physics	University of the Philippines	NCR	Misereor UPISMED	26	Fr. G. Schwarz, SDB
July 10	Upgrading Program for Elementary Science Teachers	Don Bosco Technical College Mandaluyong, M. M.	NCR	Don Bosco Faculty	21	Mr. N. Mefragata
Aug. 23-24	11 th Development Program for School District Superintendents	Teacher's Camp Baguio City	I	Civil Service Commission	72	Mr. N. Mefragata Mr. Vicente Mefragata
Oct. 6	Science Seminar on Improvisation Science Equipment for School Supervisors	Don Bosco Seminary College Canlubang, Laguna	IV	Department of Educations, Culture & Sports	50	Mr. N. Mefragata
Oct. 12-29	Science Principles in Toys and Basic Electronics	Kulyawan Youth Clubhouse Alfonso XIII St., San Juan	NCR	Opus Dei	30	Mr. N. Mefragata
1982						
Apr. 19-30	Science Seminar Workshop	Colegio dela Purisima Conception Roxas City	VI	Misereor CEAP	78	Fr. G. Schwarz, SDB Bro. Macasaet Bro. Cris Magbitang Bro. Orendain Bro. Jomar Legaspi

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Apr. 27-28	Improvisation of Science Apparatus	West Visayas Sate Colleges Iloilo City	VI	RSTC DOST	420	Mr. N. Mefragata
May 3-5	Improvisation of Science Apparatus	San Carlos University Cebu City	VII	RSTC DOST	98	Mr. N. Mefragata
May 6-7	Improvisation of Science Apparatus	Divine Word University Tacloban City	VIII	RSTC DOST	275	Mr. N. Mefragata
May 17-29	Science Seminar Workshop	Notre Dame University Cotabato City	XII	Misereor CEAP, DECS	32	Fr. G. Schwarz, SDB Bro. Macasaet Bro. Lapid Bro. J. Legaspi
July 23	Instrumentation Science Seminar	Don Bosco Seminary Canlubang, Laguna	IV	Misereor, DECS & Laguna East District	42	Fr. G. Schwarz, SDB Bro. Macasaet Bro. Lapid Bro. J. Legaspi
Oct. 2-3	New Approaches in the Teaching of HS and Elementary Science	Araullo High School Taft, Manila	NCR	Misereor DECS	128	Mr. N. Mefragata
Nov. 28	Modern Trends in Teaching High School Physics	Philippine Union College Silang, Cavite	IV	Misereor Don Bosco Science & Technology Center	76	Mr. N. Mefragata

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1983						
Jan. 21	Science Seminar Workshop	Central Luzon State University Muñoz, Nueva Ecija	III	Diocese of San Jose & Misereor	150	Mr. N. Mefragata Mr. Dennis Fantilanan
Feb. 4	Science Seminar Workshop	Bulacan Col. of Arts & Teachers Malolos, Bulacan	III	Misereor DECS	102	Mr. N. Mefragata Mr. Dennis Fantilanan
Apr. 4-15	Science Seminar Workshop	De la Salle College Bacolod City	VI	Misereor CEAP, DECS	24	Fr. G. Schwarz, SDB Bro. Macasaet Bro. C. Magbitang
Apr. 4-15	Science Seminar Workshop	University of San Agustin Iloilo City	VI	Misereor CEAP, DECS	30	Bro. J. Legaspi Bro. Lapid Bro. Orendain
Apr. 18-29	Science Seminar Workshop	Lourdes College Cagayan de Oro City	X	Misereor CEAP, DECS	41	Fr. G. Schwarz, SDB Mr. N. Mefragata
May 2-4	Science Seminar Workshop	St. Louis College San Fernando, La Union	I	Misereor CEAP, DECS	85	Fr. G. Schwarz, SDB Bro. J. Legaspi Bro. C. Magbitang Bro. Orendain
May 11-12	Science Seminar Workshop	West Visayas State College Iloilo City	I	Misereor DOST, DECS	63	Fr. G. Schwarz, SDB Bro. J. Legaspi Bro. C. Magbitang Bro. Orendain

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
May 28	Science Instrumentation Seminar Workshop	Immaculate Conception Parish School Lantana St., Quezon	VI	Misereor CEAP	26	Mr. N. Mefragata
June 1-3	Faculty Development Program for H. S. and Elementary Teachers	Kalayaan Hall University of the Philippines Diliman, Quezon City	NCR	PAPI, DOST Misereor & DECS	296	Fr. G. Schwarz, SDB Mr. N. Mefragata Bro. C. Magbitang
June 21	Physics Instrumentation Seminar Workshop for PAPI officers/members	Don Severino Agricultural Sch. Indang, Cavite	IV	Misereor CEAP, PAPI	205	Mr. N. Mefragata
Aug. 13	Science Seminar Workshop	Technology Resource Center Buendia, Makati	NCR	TRC - DOST STEAP	39	Mr. N. Mefragata
Oct. 11-12	Instructional Media (OHT/Preparation and OHP use)	P. Gomez Elementary School Manila	NCR	Misereor DECS	212	Mr. N. Mefragata
Oct. 25	Science Seminar for Elementary Teachers	Lemery Pilot School Lemery, Batangas	IV	Misereor DECS	168	Mr. N. Mefragata
Nov. 12	Improvisation of Science Instruments for School	Technology Resource Center Buendia, Manila	NCR	DOST TRC	14	Mr. N. Mefragata

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1984						
Feb. 5	Lecture on Science Instrument Improvisation	V. Mapa High School Mendiola, Manila	NCR	Misereor CEAP, NCR	732	Mr. N. Mefragata
Feb. 21	Low Cost Equipment Improvisation	San Miguel Corporation Cabuyao, Laguna	IV	Misereor, DECS & San Miguel Corp.	10	Mr. N. Mefragata
Apr. 22-30	Science Seminar Workshop	University of San Carlos Cebu City	VII	Misereor CEAP, DECS	40	Mr. N. Mefragata
May 2-9	Science Seminar Workshop	Divine Word University Tacloban City	VII	Misereor CEAP, DECS	49	Mr. N. Mefragata
Apr. 9-13	School Science Instrument Design Construction and Application	Aquinas University Legazpi City	V	Misereor CEAP, DECS	30	Mr. N. Mefragata
Apr. 20-23	SSIDCAA	St. Louis High School Dumaguete City	VII	Misereor CEAP, DECS	63	Fr. G. Schwarz, SDB Mr. N. Mefragata
May 2	Science Instrument Improvisation Seminar Workshop	Holy Rosary College Tala, Caloocan City	NCR	Misereor DECS	15	Mr. N. Mefragata
May 25-26	Science Instrument Improvisation Seminar Workshop	De la Salle College Bacolod City	VI	Misereor CEAP, DECS	63	Mr. N. Mefragata

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May 28	Use and Maintenance of Physics & Engineering Laboratory Equipment	Divine Word College Calapan Mindoro	IV	Misereor Divine Word	6	Mr. N. Mefragata
June 4	Improvisation of Low Cost Science Instruments	Quezon City High School Quezon City	NCR	Misereor CEAP, DECS	350	Mr. N. Mefragata
<u>1985</u>						
Apr. 22-27	Science Seminar Workshop	Ateneo de Davao Davao City	XI	Misereor CEAP, DECS	50	Fr. G. Schwarz, SDB Bro. J. Legaspi Bro. C. Magbitang Bro. Macasaet
<u>1986</u>						
Apr. 1-11	Science Seminar Workshop	Don Bosco Technical College Mandaluyong, M. M.	NCR	Misereor CEAP, DECS	17	Mr. N. Mefragata
May 5-10	Science Seminar Workshop	Don Bosco Technical College Mandaluyong, M. M.	NCR	Misereor CEAP, DECS	26	Mr. N. Mefragata
Sept. 5-7	Science Seminar Workshop	Don Bosco Technical Institute Victorias, Negros Occidental	VI	Misereor CEAP, DECS	32	Mr. N. Mefragata
Sept. 26-27	Science Seminar Workshop	Columban College Olongapo City	III	Misereor CEAP, DECS	39	Mr. N. Mefragata

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Nov. 22-29	Science Seminar Workshop	UP Institute of Science and Math Education UP Diliman, Quezon City	NCR	Misereor CEAP, DECS	29	Mr. N. Mefragata
Dec. 20-23	Science Seminar Workshop	Siliman University Dumaguete City	NCR	Misereor CEAP, DECS	30	Mr. N. Mefragata Dr. Maxino
<u>1987</u>						
Jan, 17-24	Science Seminar Workshop	Manila Science High School Taft Ave., Manila	NCR	Misereor CEAP, DECS	55	Mr. N. Mefragata
Jan. 27	Science Instrument Improvisation Course	Capas Elementary School Capas, Tarlac	III	Misereor, CEAP San Miguel Corp.	36	Mr. N. Mefragata
<u>1988</u>						
Jan. 18	Improvisation of Low Cost Science Instruments	St. Theresa's College Quezon City	NCR	Misereor CEAP, DECS	11	Mr. N. Mefragata
Feb. 2	Improvisation of Low Cost Science Instruments	Francisco Felix Memorial H. S. Cainta, Rizal	NCR	Misereor CEAP, DECS	16	Mr. N. Mefragata
Feb. 18	Improvisation of Low Cost Science Instruments	Antipolo High School Antipolo, Rizal	NCR	Misereor CEAP, DECS	53	Mr. N. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Mar. 14	School Science Equipment Design Construction and Application	Manila Science High School Taft Ave., Manila	NCR	Misereor CEAP, DECS	20	Mr. N. Mefragata
Apr. 12	Science Seminar Workshop	UP Institute of Science and Math Education UP Diliman, Quezon City	NCR	Misereor UPISMED, DECS	52	Mr. N. Mefragata
Aug. 18-20	School Science Equipment Design Construction and Application	Central Luzon State University Muñoz, Nueva Ecija	III	Misereor Diocese of San Jose DECS	27	Mr. N. Mefragata
Aug. 30	Low Cost Science Instrument Improvisation	San Miguel Corporation Tiaong, Quezon	IV	Misereor San Miguel Corp.	11	Mr. N. Mefragata
Sept. 8-10	SSIDCAA	UPISMED Diliman, Quezon City	NCR	Misereor DECS	26	Mr. N. Mefragata
Sept. 26	Low Cost Science Equipment Improvisation & Recycling	Araullo High School Taft Ave., Manila	NCR	Misereor DECS	72	Mr. N. Mefragata
Sept. 28 Oct. 1	SSIDCAA	Benguet State University La Trinidad, Benguet	NCR	Misereor DECS	92	Mr. N. Mefragata
Oct. 7-9	SSIDCAA	National Manpower & Youth Council Regional Center Careg, Tuguegarao	II	Misereor NMYC	50	Mr. N. Mefragata

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Nov. 6-13 20-27	Basic Electronics	De la Salle University & Don Bosco Technical College	NCR	Misereor DBTC & DLSU	7	Mr. N. Mefragata Mr. Dennis Lumbao
1989						
Feb. 23-25	SSIDCAA	Pasil Elementary School Cebu City	VII	Misereor DECS & Reg. VII	108	Mr. N. Mefragata
Apr. 11-13	SSIDCAA	University of San Agustin Iloilo City	VI	Misereor DECS & Reg. VI	49	Mr. N. Mefragata Mr. Nicolas Tan
Apr. 10-15	Basic Electronics Applied in Physics	Don Bosco Technical College & De la Salle University	NCR	Misereor	8	Mr. N. Mefragata Mr. Dennis Lumbao
Apr. 17-21	SSIDCAA	Mindanao State University Marawi City	X	Misereor, MSU Sch. System & DECS	57	Mr. N. Mefragata Dr. Perlen Ababa
May 9	Low Cost Science Equipment Improvisation & Recycling	Teacher's Camp Baguio City	I	Misereor DECS	199	Mr. N. Mefragata
June 3-4	Science Instrumentation	Don Bosco Center of Studies Talisay, Cebu	VII	Misereor CEAP, DECS	40	Bro. Carandang, SDB
July 26-28	SSIDCAA	DECS Regional Learning Ctr. San Fernando, La Union	I	Misereor DECS	56	Mr. N. Mefragata

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Sept. 2	SSIDCAA	UP Institute of Science & Math Education UP Diliman, Quezon City	NCR	Misereor DECS UPISMED	20	Mr. N. Mefragata
Nov. 8	Electroplating	Don Bosco Technical College Mandaluyong, M. M.	NCR	Misereor	9	Mr. N. Mefragata
<u>1990</u>						
Apr. 24-27	SSIDCAA	Don Bosco Center of Studies Talisay, Cebu	VII	Misereor CEAP, DECS	12	Bro. Carandang
May 9-12	Technology and Home Economics of the SEDP	St. Joseph College Quezon City	NCR	Misereor CEAP, DECS	107	Mr. N. Mefragata Mr. Dennis Lumbao
May 29	Improvisation of Low Cost Science Equipment	St. Joseph College Quezon City	NCR	Misereor CEAP, DECS	60	Mr. N. Mefragata Mr. Dennis Lumbao
June 4	Low Cost Science Instrument Improvisation	Pasay East High School Pasay City	NCR	Misereor CEAP, DECS	31	Mr. N. Mefragata
June 10-14	Science Instrument Improvisation Course (for American Peace Corps Volunteers)	Teacher's Camp Baguio City	I	Misereor U. S. Embassy U. S. Peace Corps Volunteers	76	Mr. N. Mefragata
Sept. 15	Technical Seminar on Electronics	St. Scholastica's College Manila	NCR	Misereor CEAP	8	Mr. N. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Sept. 29	Improvisation of Low Cost Science Instruments	Don Bosco Technical College Mandaluyong, M. M.	NCR	Misereor DBTC	23	Mr. N. Mefragata
Oct. 6	Improvisation of Low Cost Science Instruments	UP Institute of Science & Math Education UP Diliman, Quezon City	NCR	Misereor DECS UPISMED	10	Mr. N. Mefragata
<u>1991</u>						
May 6-16	Technology and Home Economics National Trainors Training	Don Bosco Technical College Mandaluyong City	NCR	Misereor DECS FAPE	13	Mr. N. Mefragata Mr. Jun Besario Mr. Anthony Nolasco
May 19 June 11	Technology and Home Economics National Trainors Training	Don Bosco Technical College Mandaluyong City	NCR	Misereor DECS	14	Mr. N. Mefragata Mr. J. Besario Mr. A. Nolasco
June 3-4	Technology and Home Economics Seminar Workshop	St. Stephen High School Tondo, Manila	NCR	Misereor DECS (NCR)	33	Mr. N. Mefragata Mr. J. Besario Mr. A. Nolasco
Aug. 4	Maintenance and Optimum use of School Science Materials	Rio Tuba High School Bataraza, Palawan	IV	Misereor Rio Tuba Nickel Mine & DECS	34	Mr. N. Mefragata
Nov. 10-17	Upgrading Seminar Workshop for National Trainors	Teacher's Camp Baguio City	I	Misereor DECS	39	Mr. N. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Dec. 12-14	SSIDCAA	Central Luzon State University Muñoz, Nueva Ecija	III	Misereor, DECS Diocese of San Jose	32	Mr. N. Mefragata
<u>1992</u>						
Feb. 6-7	SSIDCAA	Don Bosco School Sta. Mesa, Manila	NCR	Misereor Manila Association of Private Elem. Sch. Administrators	61	Mr. N. Mefragata
Apr. 25-29	Technology and Home Economics	Don Bosco Technical College Mandaluyong City	NCR	Misereor DECS FAPE	28	Mr. N. Mefragata
July 28	SSIDCAA	Philippine Academy of Sakya Tondo, Manila	NCR	Misereor CEAP, DECS	43	Mr. N. Mefragata
Aug. 4-5	SSIDCAA	Ateneo de Zamboanga Zamboanga City	IX	Misereor ZABAPS, DECS	47	Mr. N. Mefragata
Aug. 7-8	SSIDCAA	St. Columban College Pagadian City	IX	Misereor ZABAPS, DECS		Mr. N. Mefragata
Aug. 21	Lab. Management and Methods of Teaching	Don Bosco Technical Institute Makati, M. M.	NCR	Misereor DBTC - CRT	9	Mr. N. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
1993						
Feb. 9-12	SSIDCAA	Mindanao State University Marawi City	X	Misereor, DECS MSU Sch. System	100	Mr. N. Mefragata Dr. Ababa
May 10 June 5	Technical Training for Technical Instructors	Don Bosco Technical College Mandaluyong City	NCR	Misereor DBTC Don Bosco Technical Commission	23	Mr. N. Mefragata and BED-Tech Staff
May 21-27	SSIDCAA	Misamis University Ozamis City	X	Misereor, DECS Private School	18	Dr. Ababa Prof. Martin
Aug. 4	Creative Approach in Science Instrument Improvisation	University of the Philippines Diliman, Quezon City	NCR	Misereor PAPSCU	108	Mr. N. Mefragata
Sept. to Oct.	Science Seminar Workshop	Don Bosco Seminary Canlubang, Laguna	IV	Misereor DBTC - Canlubang	12	Fr. G. Schwarz, SDB
Oct. 18-21	Science Workshop on School Science Instrument Design Construction & Application	Mindanao State University Bongao, Tawi-Tawi	IX	Misereor MSU DECS	40	Mr. N. Mefragata Dr. Perlen Ababa
Oct. 26-29	SSIDCAA	St. Joseph Institute of Tech. Butuan City	X	Misereor MSU, DECS	19	Mr. N. Mefragata Dr. Ababa

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Nov. 23	Methods of Training and Classroom Management	Arsenal, DND Limay, Bataan	III	Misereor Dept. of National Defense	30	Mr. N. Mefragata
Nov. 24-25	SSIDCAA	Phil. Social Science Council Quezon City	NCR	Misereor ABAP	24	Mr. N. Mefragata
<u>1994</u>						
Feb. 7	SSIDCAA	Colegio de Sta. Rosa de Lima Sta. Rosa, Laguna	IV	Misereor DECS	48	Mr. N. Mefragata
Mar. 4	SSIDCAA	Pasacao School of Fisheries Pasacao, Camarines Sur	V	Misereor DECS	33	Mr. N. Mefragata
Apr. 4	SSIDCAA	Bulacan State University Malolos, Bulacan	III	Misereor, PAPI DECS, DOST	4	Mr. N. Mefragata Mr. John Mefragata
Apr. 11-12	SSIDCAA	Eastern Samba National Comprehensive High School Borongan, Eastern Samar	VIII	Misereor, DECS Don Bosco Training Center	33	Mr. N. Mefragata
Sept. 9-10	SSIDCAA	Colegio de Sta. Cecilia Valenzuela, M. M.	NCR	Misereor	18	Mr. N. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
1995						
Jan. 19-21	SSIDCAA	Notre Dame of Cotabato Cotabato City	XI	Misereor	58	Mr. N. Mefragata
Apr. 4-7	SSIDCAA	Central Philippine University Iloilo City	IV	Misereor	52	Mr. N. Mefragata Mr. Gil Espinosa
Apr. 24-26	SSIDCAA	Don Bosco High School Sta. Cruz, Laguna	IV	Misereor Don Bosco Training Center	75	Mr. N. Mefragata Bro. Pitogo Bro. Ticsay Bro. San Juan
May 29-31	SSIDCAA	Don Bosco Technical High School Punta Princesa, Cebu City	VII	Misereor, DECS Don Bosco Training Ctr.	28	Mr. N. Mefragata Mr. John Mefragata
Aug. 22-25	SSIDCAA	Pasay East High School Pasay City	NCR	Misereor DECS	77	Mr. N. Mefragata
Oct. 5-7	SSIDCAA	Total Child School Tanauan, Batangas	IV	Misereor DECS	54	Mr. N. Mefragata
Oct. 20-21	SSIDCAA	University of the Philippines PAPSCU	NCR	Misereor PAPSCU	63	Mr. N. Mefragata Bro. San Juan Bro. Ticsay

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Nov. 9-11	SSIDCAA	Diocese of Pagadian Pagadian City	IX	Misereor Diocese of Pagadian	31	Mr. N. Mefragata Dr. P. Ababa
1996						
Feb. 15-17	SSIDCAA	Don Bosco High School Sta. Cruz, Laguna	IV	Misereor Don Bosco, CEAP	75	Mr. N. Mefragata
Mar. 14-15	SSIDCAA	Pasay South High School Pasay City	NCR	Misereor Don Bosco, CEAP	77	Mr. N. Mefragata
Apr. 24-25	SSIDCAA	Total Child School Tanauan, Batangas	IV	Misereor Don Bosco, CEAP	54	Mr. N. Mefragata
May 26	SSIDCAA	Phil. Business for Social Progress Intramurous, Manila	NCR	Misereor BPS	32	Mr. N. Mefragata
May 27	SSIDCAA	University of San Jose-Recolletos Basak Campus, Cebu City	VII	Misereor DBTC - Mandaluyong	24	Mr. N. Mefragata
Oct. 3-5	SSIDCAA	Don Bosco Technical College Mandaluyong City	NCR	Misereor Don Bosco CEAP, FAPE	36	Mr. N. Mefragata Mr. Roberto Villegas Mr. Aries Cabacungan
Oct. 10-12	SSIDCAA	Holy Family Academy Angeles, Pampanga	III	Misereor Don Bosco CEAP, FAPE	40	Mr. N. Mefragata Mr. Roberto Villegas Mr. Aries Cabacungan

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Oct. 17-19	SSIDCAA	Rogationist Academy Silang, Cavite	IV	Misereor Don Bosco CEAP, FAPE	39	Mr. N. Mefragata Mr. R. Villegas Mr. A. Cabacungan
Oct. 24-26	SSIDCAA	Ateneo de Naga Naga City	V	Misereor Don Bosco CEAP, FAPE	38	Mr. N. Mefragata Mr. J. Mefragata Mr. D. Fantilanan
Nov. 7-9	SSIDCAA	St. Louis College San Fernando, La Union	I	Misereor, Don Bosco CEAP, FAPE	49	Mr. N. Mefragata Mr. R. Villegas
Nov. 14-16	SSIDCAA	La Salette College Isabela, Santiago	II	Misereor, Don Bosco CEAP, FAPE	27	Mr. N. Mefragata Mr. R. Villegas
Nov. 28-30	SSIDCAA	University of San Agustin Iloilo City	VI	Misereor, Don Bosco CEAP, FAPE	35	Mr. N. Mefragata Mr. Gil Espinosa
<u>1997</u>						
Jan. 9-11	SSIDCAA	Holy Infant College Tacloban City	VIII	Misereor, Don Bosco CEAP, FAPE	42	Mr. N. Mefragata Mr. R. Villegas
Jan. 16-18	SSIDCAA	Ateneo de Zamboanga Zamboanga City	IX	Misereor, Don Bosco CEAP, FAPE	40	Mr. N. Mefragata Dr. P. Ababa
Jan. 23-25	SSIDCAA	Xavier University Cagayan de Oro City	X	Misereor, Don Bosco CEAP, FAPE	36	Mr. N. Mefragata Dr. P. Ababa

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Jan. 29 Feb. 1	SSIDCAA	Camarines Sur Institute Pasacao, Camarines Sur	V	Misereor, Don Bosco CEAP, FAPE	18	Mr. N. Mefragata Mr. R. Villegas Mr. D. Fantilanan
Feb. 6-8	SSIDCAA	Ateneo de Davao Davao City	XI	Misereor, Don Bosco CEAP, FAPE	32	Mr. N. Mefragata Mr. P. Ababa
Feb. 12-14	SSIDCAA	University of San Carlos Cebu City	VII	Misereor, Don Bosco CEAP, FAPE	35	Mr. N. Mefragata Mr. P. Ababa
Feb. 28 Mar. 2	SSIDCAA	Notre Dame of Cotabato Cotabato City	XII	Misereor, Don Bosco CEAP, FAPE	28	Mr. N. Mefragata
Nov. 29-30	SSIDCAA	Don Bosco's Tuloy Foundation Makati City	NCR	Misereor, Don Bosco	14	Mr. N. Mefragata
<u>1999</u>						
Feb. 18-20	SSIDCAA	Holy Trinity College Puerto Princesa City	IV	Misereor Don Bosco, CEAP	28	Mr. N. Mefragata Fr. Charles Manlangit
Mar. 4-6	SSIDCAA	San Isidro College Malaybalay, Bukidnon	X	Misereor Don Bosco, CEAP	42	Mr. N. Mefragata Dr. P. Ababa
Apr. 6-8	SSIDCAA	Bicol University Legaspi City	V	Misereor Don Bosco, PAPI	45	Mr. N. Mefragata Mr. J. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Apr. 14-16	SSIDCAA	Holy Trinity College Puerto Princesa City	IV	Misereor Don Bosco	21	Mr. N. Mefragata Mr. J. Mefragata
Apr. 28-30	SSIDCAA	University of San Carlos Talamban, Cebu City	VII	Misereor, Don Bosco SMEI, USC	35	Mr. N. Mefragata Mr. J. Mefragata
May 4-7	SSIDCAA	Holy Infant College Tacloban City	VIII	Misereor, Don Bosco CEAP, Metro Bank	30	Mr. N. Mefragata Mr. J. Mefragata
May 25-28	SSIDCAA	St. Joseph College Maasin, Southern Leyte	VIII	Misereor, Don Bosco Diocese of Maasin	65	Mr. N. Mefragata
Sept. 18	Electronics	Liceo de los Baños Los Baños, Laguna	VI	Misereor, Don Bosco Salesiana Publisher	57	Mr. N. Mefragata
Oct. 13-15	Seminar Workshop in Physics	Central Luzon University Muñoz, Nueva Ecija	III	Misereor, Don Bosco Luzon Science Consortium	88	Mr. N. Mefragata Mr. J. Mefragata
Oct. 20-22	SSIDCAA	U. P. Alumni Center U. P. Diliman, Quezon City	NCR	Misereor Don Bosco, PAPSCU	17	Mr. N. Mefragata
Nov. 6 & 13	SSIDCAA	Don Bosco School Sta. Mesa, Manila	NCR	Misereor Don Bosco	15	Mr. N. Mefragata Mr. Eugene Sinlao
Nov. 20, 27 & Dec. 4	SSIDCAA	Don Bosco Academy Mabalacat, Pampanga	III	Misereor Don Bosco	22	Mr. N. Mefragata Mr. Antonio delos Reyes

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Dec. 10-12	SSIDCAA	Don Bosco Technical Institute Tarlac City	III	Misereor Don Bosco	11	Mr. N. Mefragata Mr. Antonio delos Reyes
<u>2000</u>						
Feb. 27-29	SSIDCAA	Immaculate Conception College Boac, Marinduque	IV	Misereor Don Bosco	47	Mr. N. Mefragata Mr. D. Fantilanan
May 20	SSIDCAA	Philippine Normal University Taft, Manila	NCR	Misereor Don Bosco	151	Mr. N. Mefragata Mr. J. Mefragata
<u>2001</u>						
Jan. 6	SSIDCAA	N. F. Mefragata Enterprises Mandaluyong City	NCR	Don Bosco Gifted Learning Ctr.	9	Mr. N. Mefragata
Apr. 18-20	SSIDCAA	Don Bosco Technical Institute Victorias, Negros Occidental	VI	Don Bosco	37	Mr. N. Mefragata
June 14-15	SSIDCAA	Immaculate Conception Catholic School Sta. Cruz, Laguna	IV	Don Bosco	30	Mr. N. Mefragata
Aug. 24	SSIDCAA	St. Mary's Academy Baliuag, Bulacan	III	Don Bosco St. Mary's Academy	31	Mr. N. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Aug. 30	Electricity	Gov. Ynares Memorial H. S. Binangonan, Rizal	NCR	Don Bosco PFST	58	Mr. N. Mefragata
Sept. 27-29	SSIDCAA	RVM Regional House Matina, Davao City	XI	Don Bosco	17	Mr. N. Mefragata
<u>2003</u>						
April 28 to May 2	Interactive Strategies in the Teaching of Science Concepts	JVR Training Center, EMCOR Bajada, Davao City	XI	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	31	Mr. Mefragata
May 5-9	Interactive Strategies in the Teaching of Science Concepts	JVR Training Center Mandaue City	VII	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	32	Mr. Mefragata
May 19-23	Interactive Strategies in the Teaching of Science Concepts	IWS Training Center Luisita Ind. Park, Tarlac City	III	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	32	Mr. Mefragata
Aug. 25-29	Interactive Strategies in the Teaching of Science Concepts	IWS Training Center Luisita Ind. Park, Tarlac City	III	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	51	Mr. Mefragata
Sept. 15-19	Interactive Strategies in the Teaching of Science Concepts	IWS Training Center Luisita Ind. Park, Tarlac City	III	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	49	Mr. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Sept. 29 to Oct. 3	Interactive Strategies in the Teaching of Science Concepts	IWS Training Center Luisita Ind. Park, Tarlac City	III	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	55	Mr. Mefragata
Nov. 3-7	Interactive Strategies in the Teaching of Science Concepts	IWS Training Center Luisita Ind. Park, Tarlac City	III	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	56	Mr. Mefragata
Nov. 17-21	Interactive Strategies in the Teaching of Science Concepts	IWS Training Center Luisita Ind. Park, Tarlac City	III	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	41	Mr. Mefragata
Dec. 1-5	Interactive Strategies in the Teaching of Science Concepts	IWS Training Center Luisita Ind. Park, Tarlac City	III	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	56	Mr. Mefragata
<u>2004</u>						
Apr. 12-16	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	EMCOR Training Center Bajada, Davao City	XI	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	47	Mr. N. Mefragata, Mr. John Mefragata, Mr. Elmer Meneses, Mr. Jeffrey Cano Mr. Albert Mercader
Apr. 19-23	Interactive Strategies in the Teaching of Science Concepts	EMCOR Training Center Bajada, Davao City	XI	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	47	Mr. N. Mefragata, Mr. J. Mefragata, Mr. E. Meneses, Mr. J. Cano, Mr. A. Mercader

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Apr. 26-30	Interactive Strategies in the Teaching of Science Concepts	EMCOR Training Center Bajada, Davao City	XI	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	38	Mr. N. Mefragata, Mr. J. Mefragata, Mr. E. Meneses, Mr. J. Cano, Mr. A. Mercader
May 27-29	Interactive Strategies in the Teaching of Science Concepts	Ateneo de Manila Quezon City	NCR	N. F. Mefragata Ent. Philippine Found. for Science & Techn.	27	Mr. N. Mefragata, Mr. J. Mefragata,
July 26-30	Interactive Strategies in the Teaching of Science Concepts	Brentwood Apartelle Baguio City	CAR	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	51	Mr. N. Mefragata, Mr. J. Mefragata, Mr. E. Meneses, Mr. Rizal Andrade, Mr. A. Mercader
Aug. 2-6	Interactive Strategies in the Teaching of Science Concepts	Brentwood Apartelle Baguio City	CAR	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	51	Mr. N. Mefragata, Mr. J. Mefragata, Mr. A. Mercader, Mr. J. Cano Mr. Ferdie Sanchez
Aug. 9-13	Interactive Strategies in the Teaching of Science Concepts	Brentwood Apartelle Baguio City	CAR	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	50	Mr. N. Mefragata, Mr. J. Mefragata, Mr. E. Meneses, Mr. Albert Datu, Mr. A. Mercader

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Sept. 24	Operation, Maintenance & Repair of Optical Microscope	Don Bosco Technical College Mandaluyong City	NCR	N. F. Mefragata Ent.	5	Mr. N. Mefragata
Oct. 15	Safety & Laboratory Procedures	Don Bosco Technical College Mandaluyong City	NCR	N. F. Mefragata Ent.	26	Mr. N. Mefragata
Nov. 11-12	Interactive Strategies in the Teaching of Science Concepts	San Guillermo Nat'l High School San Guillermo, Zambales	III	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	35	Mr. N. Mefragata, Mr. J. Mefragata, Mr. R. Andrade
<u>2005</u>						
Apr. 3-8	Interactive Strategies in the Teaching of Science Concepts	JVR Training Center EMCOR Comp. J. P. Laurel Ave., Bajada, Davao City	XI	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	41	Mr. N. Mefragata, Mr. J. Mefragata, Mr. E. Meneses, Mr. Rubidell Espiritu Mr. Jancelle Macaindig
Apr. 10-15	Interactive Strategies in the Teaching of Science Concepts	JVR Training Center EMCOR Comp. J. P. Laurel Ave., Bajada, Davao City	XI	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	62	Mr. N. Mefragata, Mr. J. Mefragata, Mr. E. Meneses, Mr. R. ESpiritu
Apr. 24-29	Interactive Strategies in the Teaching of Science Concepts	The Regent Hotel Elias Angeles St., Naga City	V	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	50	Mr. N. Mefragata Mr. Albert Datu Mr. Rizal M. Andrade Mr. John Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
May 20-22	Interactive Strategies in the Teaching of Science Concepts	Barangka Elementary School Barangka, Marikina City	NCR	N. F. Mefragata Ent. Phil. Foundation for Science & Tech.	60	Mr. N. Mefragata
May 1-6	Interactive Strategies in the Teaching of Science Concepts	The Regent Hotel Elias Angeles St., Naga City	V	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	50	Mr. N. Mefragata, Mr. Albert Datu, Mr. Rizal M. Andrade Mr. John Mefragata
May 12-14	Interactive Strategies in the Teaching of Science Concepts	Southern Luzon Polytechnic Col. Lucban, Quezon Province	IV	N. F. Mefragata Ent. Phil. Foundation for Science & Tech.	60	Mr. N. Mefragata
May 15-20	Interactive Strategies in the Teaching of Science Concepts	The Legend Hotel Puerto Princesa, Palawan	IV	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	51	Mr. N. Mefragata, Mr. J. Mefragata, Mr. E. Meneses, Mr. F. Sanchez
May 22-27	Interactive Strategies in the Teaching of Science Concepts	The Legend Hotel Puerto Princesa, Palawan	IV	N. F. Mefragata Ent. JVR Foundation, Inc NEAP-DepEd	50	Mr. N. Mefragata, Mr. J. Mefragata, Mr. E. Meneses, Mr. F. Sanchez
July 17-22	Interactive Strategies in the Teaching of Science Concepts	Mariano Marcos Memorial ES Batac, Ilocos Norte	I	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	56	Mr. N. Mefragata Mr. Rubidell Espiritu Mr. J. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
July 25-29	Interactive Strategies in the Teaching of Science Concepts	Ilocos Sur National High School Vigan City	I	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	57	Mr. N. Mefragata Mr. J. Mefragata Mr. R. Espiritu
July 31 Aug. 5	Interactive Strategies in the Teaching of Science Concepts	La Union National High School San Fernando City	I	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	58	Mr. N. Mefragata Mr. J. Mefragata Mr. R. Espiritu
Aug. 8-12	Interactive Strategies in the Teaching of Science Concepts	BSL Hall, DepEd Division Office Dagupan City	I	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	32	Mr. N. Mefragata Mr. J. Mefragata Mr. Roger Lucas
Aug. 15-19	Interactive Strategies in the Teaching of Science Concepts	Speaker Eugenio Perez National Agricultural School San Carlos City, Pangasinan	I	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	35	Mr. N. Mefragata Mr. J. Mefragata Mr. Rodrigo Reyes
Aug. 22-26	Interactive Strategies in the Teaching of Science Concepts	Lingayen National High School Lingayen, Pangasinan	I	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	37	Mr. N. Mefragata Mr. J. Mefragata Mr. Virgil Samonte Mr. Jose Ramil Sibun Mr. Ramon Estrada

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
Aug. 28 Sept. 2	Interactive Strategies in the Teaching of Science Concepts	Benigno V. Aldana Nat'l H. S. Pozorrubio, Pangasinan	I	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	123	Mr. N. Mefragata Mr. J. Mefragata Mr. R. Espiritu Mr. R. Reyes Mr. R. Lucas Mr. V. Samonte Mr. J. R. Sibun Mr. R. Estrada
2006						
Apr. 17-21	Interactive Strategies in the Teaching of Science Concepts	Pres. Roxas High School North Cotabato, Kidapawan City	XII	N. F. Mefragata Ent. SEDIP DepEd	418	Mr. N. Mefragata
Apr. 23-28	Interactive Strategies in the Teaching of Science Concepts	Centennial Plaza Hotel Jalandoni St., Iloilo City	VI	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	98	Mr. N. Mefragata Mr. J. Mefragata Mr. D. Fantilanan Mr. E. Meneses Mr. R. Espiritu
May 7-12	Interactive Strategies in the Teaching of Science Concepts	Villa Victoria Hotel Tuguegarao City, Cagayan	II	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	97	Mr. N. Mefragata Mr. J. Mefragata Mr. D. Fantilanan Mr. R. Lucas Mr. V. Boado

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
May 28 June 2	Interactive Strategies in the Teaching of Science Concepts	Leyte Park Hotel Taacloban City, Leyte	VII	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	103	Mr. N. Mefragata Mr. J. Mefragata Mr. D. Fantilanan Mr. E. Meneses Mr. A. Datu Mr. V. Samonte
<u>2007</u>						
Jan. 27 Feb. 3, 4, 10, 11	Interactive Strategies in the Teaching of Science Concepts	Semirara Mines Corp. Semirara Island	VI	N. F. Mefragata Ent. DepEd, Semirara Mines Corp.	48	Mr. N. Mefragata
Apr. 2 - 4	Interactive Strategies in the Teaching of Science Concepts	Bauan East Central School Bauan, Batangas		N. F. Mefragata Ent. DepEd Kampon ni Pakakak	54	Mr. N. Mefragata
Apr. 15 - 20	Interactive Strategies in the Teaching of Science Concepts	Development Academy of the Philippines SUnghay East, Tagaytay City	IV-A	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	49	Mr. N. Mefragata Mr. J. Mefragata Mr. R. Andrade Mr. E. Meneses Mr. R. Espiritu Mr. F. Sanchez Mr. D. Moreno

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
<u>2007</u>						
Apr. 22 - 27	Interactive Strategies in the Teaching of Science Concepts	Development Academy of the Philippines Sungay East, Tagaytay City	IV-A	N. F. Mefragata Ent. JVR Foundation, Inc DepEd	49	Mr. N. Mefragata Mr. J. Mefragata Mr. R. Andrade Mr. E. Meneses Mr. R. Espiritu Mr. F. Sanchez Mr. D. Moreno
Oct. 22-24	Interactive Strategies in the Teaching of Science Concepts	San Juan de Letran Batangas City	IV			Mr. N. Mefragata
<u>2008</u>						
Jan. 5	Interactive Strategies in the Teaching of Science Concepts	Cam. Sur Agricultural State Col. Pili, Camarines Sur	V	Phil. Physics Society	120	Mr. N. F. Mefragata
Feb. 3	Interactive Strategies in the Teaching of Science Concepts	Maxino College Dumaguete City	VII	N. F. Mefragata Ent.	8	Mr. N. F. Mefragata
Mar. 31	Interactive Strategies in the Teaching of Science Concepts	GMT Delgado Elem. School Sta. Barbara, Iloilo	VI	N. F. Mefragata Ent. DepEd Ms. Amalia Soqueña	22	Mr. N. F. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
<u>2008</u>						
Apr. 2-5	Interactive Strategies in the Teaching of Science Concepts	Siguijor State College Siquijor	VII		250	Mr. N. F. Mefragata
May 7	Interactive Strategies in the Teaching of Science Concepts	Sta. Barbara District Iloilo City	VI		107	Mr. N. F. Mefragata
May 8	Interactive Strategies in the Teaching of Science Concepts	Don Bosco Technical College Victorias, Negros Occidental	NCR	N. F. Mefragata Ent.	8	Mr. N. F. Mefragata
Sept. 20	Interactive Strategies in the Teaching of Science Concepts	LIDE Learning Center, Inc. Isabel, Leyte	VIII	PASAR Foundation, Inc.	92	Mr. N. F. Mefragata
<u>2009</u>						
Feb. 16	Interactive Strategies in the Teaching of Science Concepts	Don Bosco Technical College Mandaluyong City	NCR	N. F. Mefragata Ent.	21	Mr. N. F. Mefragata
May 23	Interactive Strategies in the Teaching of Science Concepts	Ateneo University Katipunan, Quezon City	NCR	Paseo TLJ Education Services	57	Mr. N. F. Mefragata
Aug. 10 & 17	Interactive Strategies in the Teaching of Science Concepts	Phil Foundation for Sci. & Tech. River Banks, Marikina City	NCR		10	Mr. N. F. Mefragata

YEAR DATE	Seminar Workshop	Venue/Address	Region	Cooperating Agency	No. of Teachers	Instructor/s
<u>2009</u>						
Sept. 29 & 30	Creativity in Science Teaching	Ecotech, Lahug Cebu City	All Regions	SCAAP, DOST, PFST	857	Mr. N. F. Mefragata
Nov. 28 & Dec. 5	Chemistry and Physics	Phil Foundation for Sci. & Tech. River Banks, Marikina City	NCR	PFST, DepEd Valenzuela, NFM	80	Mr. N. F. Mefragata

ABAP	=	<i>Association of Booksellers for the Academe and the Professions</i>
BPS	=	<i>Bureau of Private Schools (Now the DECS)</i>
CAR	=	<i>Cordillera Autonomous Region</i>
CEAP	=	<i>Catholic Educational Association of the Philippines</i>
CLSU	=	<i>Central Luzon State University</i>
DB CRT	=	<i>Don Bosco Center of Research and Training</i>
DECS	=	<i>Department of Education, Culture and Sports</i>
DOST	=	<i>Department of Science and Technology</i>
EMCOR	=	<i>Engineering and Machineries Corporation</i>
FAPE	=	<i>Funds for Assistance to Private Education</i>
IWS	=	<i>International Wiring System</i>
JVR	=	<i>Jesus V. Del Rosario Foundation</i>
LSC	=	<i>Luzon Science Consortium</i>
Misereor	=	<i>Zantralstelle Fur Entwiclunghilfe (a funding agency based in Germany)</i>
MSU	=	<i>Mindanao State University</i>
NEAP	=	<i>National Educators Academy of the Philippines</i>
NDEA	=	<i>Notre Dame Educational Association</i>
NSDB	=	<i>National Science Development Board – it is now DOST</i>
NSTA	=	<i>National Science and Technology Authority – it is now DOST</i>
NTC	=	<i>National Teachers College</i>
PAPI	=	<i>Philippine Association of Physics Instructors (College Teachers and Professors)</i>
PAPSCU	=	<i>Philippine Association of Private Schools, Colleges and Universities</i>
PAPT	=	<i>Philippine Association of Physics Teachers (High School Physics Teachers)</i>
PFST	=	<i>Philippine Foundation for Science and Technology</i>
PPS	=	<i>Philippine Physics Society</i>
RSTC	=	<i>Regional Science Teaching Center</i>
SCAAP	=	<i>Science Club Adviser Association of the Philippines</i>
SEPNAS	=	<i>Speaker Eugenio Perez National Agricultural School</i>
SGNHS	=	<i>San Guillermo National High School</i>
SMEI	=	<i>Science and Mathematics Education Institute of the University of San Carlos, Cebu City</i>

SSIDCAA	=	<i>Schools Science Instrument Design Construction and Application</i>
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STEAP	=	<i>Science and Technology Educators Association of the Philippines</i>
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TRC	=	<i>Technology Resource Center</i>
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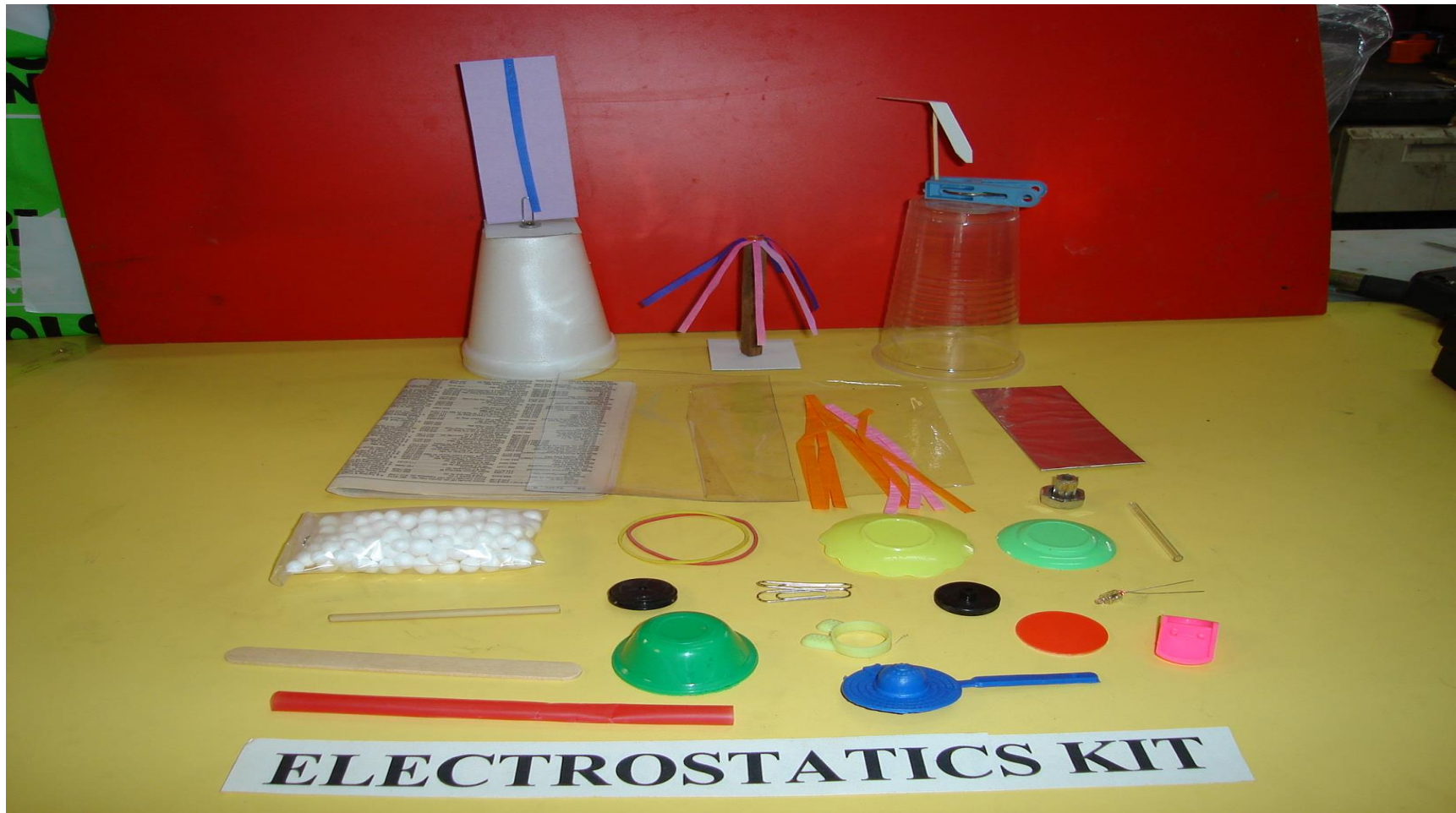
UP	=	<i>University of the Philippines</i>
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UPISMED	=	<i>University of the Philippines – Institute of Science and Mathematics Education</i>
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USC	=	<i>University of San Carlos, Cebu City</i>
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ZABAPS	=	<i>Zamboanga-Basilan Association of Private Schools</i>
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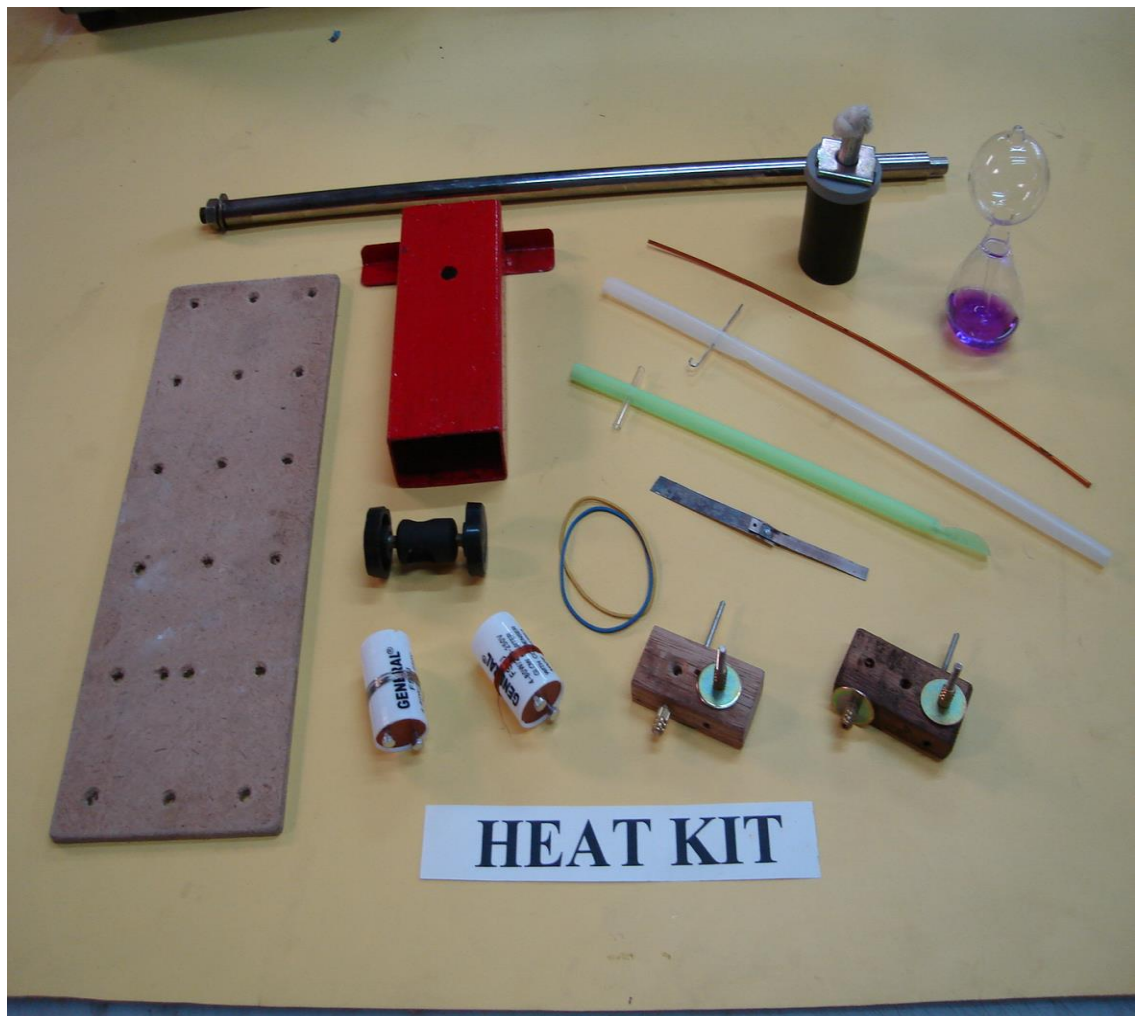


ELECTROSTATICS KIT



ELECTRICITY SOURCE KIT





HEAT KIT



MECHANICS KIT



OPTICS KIT



TOOLS KIT

