Don Bosco’s Contribution to Science

Education in the Philippines

1954 – 2017

*and beyond*

*Science Teacher Training and Seminar-Workshops*

*Conducted by Don Bosco from 1954 - 2017*

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| **SCIENCE AND TECHNOLOGY SEMINAR-WORKSHOPS**conducted by **DON BOSCO**with Financial Assistance of**BISCHÖFLICHES HILFSWERK**or **MISEREOR** of **GERMANY**and with cooperationof**DECS, FAPE, CEAP, SCHOOLS, COLLEGES****AND UNIVERSITIES IN THE PHILIPPINES****1954 – 2016** |

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|  |  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 Trainor’s 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. |  |

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|  |  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 Trainor’s for both Public and Private Schools (1990-1991) The seminars conducted brought the Don Bosco Trainor’s 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. |  |

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|  |  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, and another priest. By 1960 several seminars were conducted for the benefit of teachers from both private and public schools. These activities continued up to 2002 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 28-30,000 Science teachers from Batanes to Tawi-Tawi. From 2001 up 2016 more than 60,000 other teacher were trained using the Interactive Approach in Teaching Basic Science Concepts in Basic Education level (Elementary and High School). A good number of College teachers also experienced the Don Bosco approach in teaching. From 2003 to 2007, The National Educators Academy of the Phil (NEAP) of Dep-Ed embarked on the retraining of all H.S. Physics Teachers in the entire Philippines. The Project was funded by JVR Foundation through the initiative of Mr. Edwin Gonda, the executive director of JVR Foundation. About 2,300 physics teacher underwent a one week, 50-hour seminar workshop.  This compilation is only a part of Don Bosco’s outreach programs. Other groups of Salesians and Don Bosco Teachers continue to help teachers nationwide, serving not only Christian and Muslim communities but also other minorities.  This compilation is dedicated to two German Salesian priests who started it all in the Philippines Fr. George Schwarz, SDB and Fr. John Rauh, SDB (both deceased).  |  |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **1954** | Lecture Demonstration and Project Construction in Science**TOPIC:** Mechanics | Don Bosco Technical InstituteVictoria Milling Co.,Victorias, Negros Occidental | VI | Bureau of Private Schools | 36 | Fr. John Rauh, SDB |
| . | **NOTE:** |  *This is the very first seminar-workshop for Science Teachers held in the Philippines after World War II* |  |
| **1955** | Lecture Demonstration and Project Construction in Science**TOPIC:** Electricity and Optics | Don Bosco Technical InstituteVictoria Milling Co.,Victorias, Negros Occidental | VI |  | 47 | Fr. John Rauh, SDBMr. Nicolas Tan |
| **1959** |  |  |  |  |  |  |
| May27-29 | Improvisation of Science Apparatus and exhibition of 50 samples of improvised science projects | San Sebastian CollegeCM Recto, Manila | NCR |  | 212 | Fr. George Schwarz, SDB |
| **1961** |  |  |  |  |  |  |
| Dec.4-6 | Science Seminar Workshop for Secondary Teachers | Don Bosco AcademyTarlac, Tarlac | III |  | 25 | Fr. George Schwarz, SDB |
| **1962** |  |  |  |  |  |  |
| July9-14 | Workshop for Physics Teachers | St. Bridgitte CollegeBatangas, Batangas | NCR |  | 30 | Fr. George Schwarz, SDBMr. Narciso F. Mefragata**1** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **1965** |  |  |  |  |  |  |
| Sept.2-24 | Instrumentation Workshop on Natural Science | DECSMalabon | NCR | NSBDBureau of PrivateSchools, Manila | 32 | Dr. Angeles Santos |
| Oct.18-22 | Instrumentation Workshop on Natural Science | Roosevelt CollegeMarikina | NCR | BPS, NSDBRizal District | 28 | Dr. Angeles Santos |
| Nov.22-26 | Demo and Practice Magnetism & Static Electricity | Stella Maris CollegeQuezon City | NCR | BPS, NSDBRizal District | 25 | Fr. George Schwarz, SDB |
| **1966** |  |  |  |  |  |  |
| Jan.17-21 | Const. Workshop in Physical Science | Southern CollegePasay | NCR | BPS, NSD | 28 | Fr. George Schwarz, SDB |
| Feb.1-4 | Const. Workshop in Physical Science | Don Bosco Technical CollegeMandaluyong City | NCR | BPS, NSD | 32 | Fr. George Schwarz, SDB |
| Mar.1-4 | Science Seminar Workshop | St. Joseph CollegeCavite City | IV | BPS, NSDBRizal District | 30 | Fr. George Schwarz, SDB |
| May9-13 | Instrumentation Workshop | Epifanio delos Santos CollegeMalabon, Rizal | NCR | BPS, NSD | 40 | Fr. George Schwarz, SDBDr. Angeles Santos |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| May26-29 | Science Seminar Workshop | Don Bosco Technical CollegeMandaluyong, Rizal | NCR | Asia Foundation Bureau of Private Schools | 45 | Fr. George Schwarz, SDBMr. Richard Nelson |
| Oct. 14 | Science Seminar Workshop | Holy Spirit AcademyTarlac, Tarlac | III | BPS, NSDBRizal District | 34 | Fr. G. Schwarz, SDB |
| **1967** |  |  |  |  |  |  |
| Apr.25-28 | Science Seminar Workshop for Teachers | Don Bosco Technical InstituteMandaluyong | NCR | Misereor | 40 | Fr. G. Schwarz, SDB |
| May2-5 | Science Seminar Workshop for Teachers | Don Bosco AcademyPampanga | III | Misereor | 27 | Fr. G. Schwarz, SDB |
| May9-12 | Science Seminar Workshop for Teachers | Don Bosco AcademyTarlac | I | Misereor | 68 | Fr. G. Schwarz, SDB  |
| May16-19 | Science Seminar Workshop | Blessed Imelda AcademyDagupan City | I | Misereor | 41 | Fr. G. Schwarz, SDB |
| May23-26 | Science Seminar Workshop | Baguio Technical SchoolBaguio City | I | Misereor | 22 | Fr. G. Schwarz, SDBMr. Richard NelsonMr. Narciso Mefragata |
| May 30June 2 | Science Seminar Workshop | Divine Word CollegeLaoag City | II | MisereorCEAP | 23 | Mr. Narciso Mefragata**3** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| June6-9 | Science Seminar Workshop  | St. Bridgets CollegeBatangas, Batangas | IV | Misereor | 41 | Fr. G. Schwarz, SDBMr. N. Mefragata |
| June13-16 | Science Seminar Workshop | San Pablo CollegesSan Pablo City | IV | Misereor  | 45 | Fr. G. Schwarz, SDBMr. N. Mefragata |
| Sept.9-16 | Science Seminar Workshop | Don Bosco AcademyTarlac, Tarlac | III | Misereor | 49 | Fr. G. Schwarz, SDBMr. Arturo Villegas |
| **1970** |  |  |  |  |  |  |
| May11-16 | Science Seminar Workshop  | Don Bosco Technical H. S.Cebu City | VII | Misereor | 24 | Fr. G. Schwarz, SDBMr. Romeo GuzmanMr. Santiago |
| May18-23 | Science Seminar Workshop for Teachers | Colegio de San Jose RecoletosCebu City | VII | Misereor | 64 | Fr. G. Schwarz, SDBMr. Romeo GuzmanMr. Santiago |
| May25-30 | Science Seminar Workshop | Xavier UniversityCagayan de Oro City | X | Misereor | 50 | Fr. G. Schwarz, SDBMr. Romeo GuzmanMr. Santiago |
| June1-6 | Science Seminar Workshop  | Ateneo de DavaoDavao City | XI | Misereor | 50 | Fr. G. Schwarz, SDBMr. N. Mefragata |
| June8-13 | Science Seminar Workshop  | University of Negros Occ.Recolletos (UNO-R)Bacolod City | VI | Misereor | 50 | Fr. G. Schwarz, SDBMr. N. Mefragata**4** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| June15-20  |  Science Seminar Workshop  |  Don Bosco AcademyTarlac, Tarlac  |  III  |  Misereor  |  50  |  Fr. G. Schwarz, SDBMr. Arturo Villegas  |
| **1971** |  |  |  |  |  |  |
| Oct.23-30 | Science Seminar Workshop  | College of Immaculate ConceptionCabanatuan City | III | MisereorCEAP | 32 | Fr. G. Schwarz, SDBMr. R. GuzmanMr. Santiago |
| **1972** |  |  |  |  |  |  |
| Feb. 12Mar. 18 | Science Seminar Workshop  | Don Bosco Academy | III | Misereor | 66 | Fr. G. Schwarz, SDBMr. Arturo Villegas |
| May8-12 | Science Seminar Workshop  | Universidad de los CaceresNaga, Camarines Sur | V | Misereor | 53 | Fr. G. Schwarz, SDBMr. R. GuzmanMr. Santiago |
| May22-26 | Science Seminar Workshop  | Regina Carmel CollegeMalolos, Bulacan | III | Misereor | 32 | Fr. G. Schwarz, SDBMr. R. GuzmanMr. Santiago |
| June5-9 | Science Seminar Workshop  | St. Louis CollegeSan Fernando, La Union | I | Misereor | 32 | Fr. G. Schwarz, SDBBro. OrendainMr. Santiago |
| June19-23 | Science Seminar Workshop  | Holy Spirit CollegeLaoag City | I | Misereor | 62 | Fr. G. Schwarz, SDB**5** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| June 21July 1 | Science Seminar Workshop  | Don Bosco College SeminaryCanlubang, Laguna | IV | Misereor | 44 | Fr. G. Schwarz, SDB |
| **1974** | *8 Science Seminars conducted by Dr. Angeles Santos with contribution of materials and books from Fr. Schwarz.* | NCR | Bureau of Private Schools | 302 | Dr. Angeles SantosFr. G. Schwarz, SDB |
| **1975** |  |  |  |  |  |  |
| Feb. 3Mar. 19 | Science Seminar for Physics Teachers | Dalubhasaang Epifanio delos Santos | NCR | Bureau of Private Schools | 37 | Fr. G. Schwarz, SDBDr. A. Santos |
| Apr. 7May 15 | Science Instrumentation Seminar Workshop | Philippine Normal CollegeTaft, Manila | NCR | Misereor | 97 | Fr. G. Schwarz, SDB |
| Apr. 8May 17 | Science Instrumentation Seminar Workshop | Centro Escolar UniversityMendiola, Manila | NCR | Misereor | 27 | Dr. A. SantosMr. N. Mefragata |
| Apr.7-14 | Science Instrumentation Seminar Workshop | Foundation UniversityDumaguete City | VII | Misereor | 31 | Mr. N. MefragataMr. R. GuzmanMr. Santiago |
| June 5Sept. 25 | Science Instrumentation Seminar Workshop | Don Bosco College SeminaryCanlubang, Laguna | IV | Misereor | 37 | Fr. G. Schwarz, SDB |
| July 7Sept. 29 | Science Instrumentation Seminar Workshop | Don Bosco Technical InstituteMakati, M. M. | NCR | Misereor | 25 | Fr. G. Schwarz, SDB |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Nov. 4Dec. 3 | Science Instrumentation Seminar Workshop | St. Peter’s CollegeOrmoc City | VIII | Misereor | 52 | Mr. N. Mefragata |
| **1977** |  |  |  |  |  |  |
| Jan. 8Mar. 26 | Science Seminar for Physics Teachers | Don Bosco Technical CollegeMandaluyong City | NCR | Misereor | 25 | Fr. G. Schwarz, SDB |
| Apr. 11May 24 | Science Seminar for Physics Teachers | Epifanio delos Santos CollegeMalabon | NCR | Misereor | 25 | Fr. G. Schwarz, SDBDr. A. Santos  |
| Oct.17-22 | Science Seminar for Physics Teachers | Notre Dame of Marbel CollegeKoronadal, South Cotabato | XII | MisereorCEAP, BPS | 69 | Fr. G. Schwarz, SDBMr. N. Mefragata |
| **1978** |  |  |  |  |  |  |
| Aug. 22May 19 | Science Seminar for Physics Teachers | Philippine Normal CollegeTaft, Manila | NCR | MisereorCEAP, BPS | 35 | Fr. G. Schwarz, SDBBro. Cartolada |
| Apr. 25May 22 | Science Instrumentation Seminar Workshop | National Teachers CollegeManila | NCR | MisereorCEAP, BPS | 41 | Fr. G. Schwarz, SDBBro. Cartagena |
| **1979** |  |  |  |  |  |  |
| Jan. 27Oct. 13 | Science Instrumentation Seminar Workshop | Don Bosco SeminaryCanlubang, Laguna | IV | MisereorCEAP, BPS | 25 | Fr. G. Schwarz, SDB |
| Apr. 17May 11 | Science Instrumentation Seminar Workshop | De la Salle UniversityTaft, Manila | NCR | MisereorCEAP, BPS | 49 | Mr. N. Mefragata**7** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Apr. 27May 5 | Science Instrumentation Seminar Workshop | Don Bosco SeminaryCanlubang, Laguna | IV | MisereorCEAP, BPS |  | Fr. G. Schwarz, SDBMr. A. Villegas |
| May7-25 | Science Institute in Physics | University of the Philippines | NCR | MisereorUPISMED | 26 | Fr. G. Schwarz, SDB |
| July 10 | Upgrading Program for Elementary Science Teachers | Don Bosco Technical CollegeMandaluyong, M. M. | NCR | Don Bosco Faculty | 21 | Mr. N. Mefragata |
| Aug.23-24 | 11th Development Program for School District Superintendents | Teacher’s CampBaguio City | I | Civil Service Commission | 72 | Mr. N. MefragataMr. Vicente Mefragata |
| Oct. 6 | Science Seminar on Improvisation Science Equipment for School Supervisors | Don Bosco Seminary CollegeCanlubang, Laguna | IV | Department of Educations, Culture & Sports | 50 | Mr. N. Mefragata |
| Oct.12-29 | Science Principles in Toys and Basic Electronics | Kulyawan Youth ClubhouseAlfonso XIII St., San Juan | NCR | Opus Dei | 30 | Mr. N. Mefragata |
| **1982** |  |  |  |  |  |  |
| Apr.19-30 | Science Seminar Workshop | Colegio dela Purisima ConceptionRoxas City | VI | MisereorCEAP | 78 | Fr. G. Schwarz, SDBBro. MacasaetBro. Cris MagbitangBro. OrendainBro. Jomar Legaspi**8** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Apr.27-28 | Improvisation of Science Apparatus | West Visayas Sate CollegesIloilo City | VI | RSTCDOST | 420 | Mr. N. Mefragata |
| May3-5 | Improvisation of Science Apparatus | San Carlos UniversityCebu City | VII | RSTCDOST | 98 | Mr. N. Mefragata |
| May6-7 | Improvisation of Science Apparatus | Divine Word UniversityTacloban City | VIII | RSTCDOST | 275 | Mr. N. Mefragata |
| May17-29 | Science Seminar Workshop | Notre Dame UniversityCotabato City | XII | MisereorCEAP, DECS | 32 | Fr. G. Schwarz, SDBBro. MacasaetBro. LapidBro. J. Legaspi |
| July 23 | Instrumentation Science Seminar | Don Bosco SeminaryCanlubang, Laguna | IV | Misereor, DECS & Laguna East District | 42 | Fr. G. Schwarz, SDBBro. MacasaetBro. LapidBro. J. Legaspi |
| Oct.2-3 | New Approaches in the Teaching of HS and Elementary Science | Araullo High SchoolTaft, Manila | NCR | MisereorDECS | 128 | Mr. N. Mefragata |
| Nov. 28 | Modern Trends in Teaching High School Physics | Philippine Union CollegeSilang, Cavite | IV | MisereorDon Bosco Science & Technology Center | 76 | Mr. N. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **1983** |  |  |  |  |  |  |
| Jan. 21 | Science Seminar Workshop | Central Luzon State UniversityMuñoz, Nueva Ecija | III | Diocese of San Jose & Misereor | 150 | Mr. N. MefragataMr. Dennis Fantilanan |
| Feb. 4 | Science Seminar Workshop | Bulacan Col. of Arts & TeachersMalolos, Bulacan | III | MisereorDECS | 102 | Mr. N. MefragataMr. Dennis Fantilanan |
| Apr.4-15 | Science Seminar Workshop | De la Salle CollegeBacolod City | VI | MisereorCEAP, DECS | 24 | Fr. G. Schwarz, SDBBro. MacasaetBro. C. Magbitang |
| Apr.4-15 | Science Seminar Workshop | University of San AgustinIloilo City | VI | MisereorCEAP, DECS | 30 | Bro. J. LegaspiBro. LapidBro. Orendain |
| Apr.18-29 | Science Seminar Workshop | Lourdes CollegeCagayan de Oro City | X | MisereorCEAP, DECS | 41 | Fr. G. Schwarz, SDBMr. N. Mefragata |
| May2-4 | Science Seminar Workshop | St. Louis CollegeSan Fernando, La Union | I | MisereorCEAP, DECS | 85 | Fr. G. Schwarz, SDBBro. J. LegaspiBro. C. MagbitangBro. Orendain |
| May11-12 | Science Seminar Workshop | West Visayas State CollegeIloilo City | I | MisereorDOST, DECS | 63 | Fr. G. Schwarz, SDBBro. J. LegaspiBro. C. MagbitangBro. Orendain |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| May 28 | Science Instrumentation Seminar Workshop | Immaculate Conception Parish SchoolLantana St., Quezon | VI | MisereorCEAP | 26 | Mr. N. Mefragata |
| June1-3 | Faculty Development Program for H. S. and Elementary Teachers | Kalayaan HallUniversity of the PhilippinesDiliman, Quezon City | NCR | PAPI, DOSTMisereor & DECS | 296 | Fr. G. Schwarz, SDBMr. N. MefragataBro. C. Magbitang |
| June 21 | Physics Instrumentation Seminar Workshop for PAPI officers/members | Don Severino Agricultural Sch.Indang, Cavite | IV | MisereorCEAP, PAPI | 205 | Mr. N. Mefragata |
| Aug. 13 | Science Seminar Workshop | Technology Resource CenterBuendia, Makati | NCR | TRC – DOSTSTEAP | 39 | Mr. N. Mefragata |
| Oct. 11-12 | Instructional Media (OHT/Preparation and OHP use) | P. Gomez Elementary SchoolManila | NCR | MisereorDECS | 212 | Mr. N. Mefragata |
| Oct. 25 | Science Seminar for Elementary Teachers | Lemery Pilot SchoolLemery, Batangas | IV | MisereorDECS | 168 | Mr. N. Mefragata |
| Nov. 12 | Improvisation of Science Instruments for School | Technology Resource CenterBuendia, Manila | NCR | DOSTTRC | 14 | Mr. N. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **1984** |  |  |  |  |  |  |
| Feb. 5 | Lecture on Science Instrument Improvisation | V. Mapa High SchoolMendiola, Manila | NCR | MisereorCEAP, NCR | 732 | Mr. N. Mefragata |
| Feb. 21 | Low Cost Equipment Improvisation | San Miguel CorporationCabuyao, Laguna | IV | Misereor, DECS & San Miguel Corp. | 10 | Mr. N. Mefragata |
| Apr.22-30 | Science Seminar Workshop | University of San CarlosCebu City | VII | MisereorCEAP, DECS | 40 | Mr. N. Mefragata |
| May2-9 | Science Seminar Workshop | Divine Word UniversityTacloban City | VII | MisereorCEAP, DECS | 49 | Mr. N. Mefragata |
| Apr.9-13 | School Science Instrument Design Construction and Application | Aquinas UniversityLegazpi City | V | MisereorCEAP, DECS | 30 | Mr. N. Mefragata |
| Apr.20-23 | SSIDCAA | St. Louis High SchoolDumaguete City | VII | MisereorCEAP, DECS | 63 | Fr. G. Schwarz, SDBMr. N. Mefragata |
| May 2 | Science Instrument Improvisation Seminar Workshop | Holy Rosary CollegeTala, Caloocan City | NCR | MisereorDECS | 15 | Mr. N. Mefragata |
| May25-26 | Science Instrument Improvisation Seminar Workshop | De la Salle CollegeBacolod City | VI | MisereorCEAP, DECS | 63 | Mr. N. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| May 28 | Use and Maintenance of Physics & Engineering Laboratory Equipment | Divine Word CollegeCalapan Mindoro | IV | MisereorDivine Word | 6 | Mr. N. Mefragata |
| June 4 | Improvisation of Low Cost Science Instruments | Quezon City High SchoolQuezon City | NCR | MisereorCEAP, DECS | 350 | Mr. N. Mefragata |
| **1985** |  |  |  |  |  |  |
| Apr.22-27 | Science Seminar Workshop | Ateneo de DavaoDavao City | XI | MisereorCEAP, DECS | 50 | Fr. G. Schwarz, SDBBro. J. LegaspiBro. C. MagbitangBro. Macasaet |
| **1986** |  |  |  |  |  |  |
| Apr.1-11 | Science Seminar Workshop | Don Bosco Technical CollegeMandaluyong, M. M. | NCR | MisereorCEAP, DECS | 17 | Mr. N. Mefragata |
| May5-10 | Science Seminar Workshop | Don Bosco Technical CollegeMandaluyong, M. M. | NCR | MisereorCEAP, DECS | 26 | Mr. N. Mefragata |
| Sept.5-7 | Science Seminar Workshop | Don Bosco Technical InstituteVictorias, Negros Occidental | VI | MisereorCEAP, DECS | 32 | Mr. N. Mefragata |
| Sept.26-27 | Science Seminar Workshop | Columban CollegeOlongapo City | III | MisereorCEAP, DECS | 39 | Mr. N. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Nov.22-29 | Science Seminar Workshop | UP Institute of Science and Math EducationUP Diliman, Quezon City | NCR | MisereorCEAP, DECS | 29 | Mr. N. Mefragata |
| Dec.20-23 | Science Seminar Workshop | Siliman UniversityDumaguete City | NCR | MisereorCEAP, DECS | 30 | Mr. N. MefragataDr. Maxino |
| **1987** |  |  |  |  |  |  |
| Jan,17-24 | Science Seminar Workshop | Manila Science High SchoolTaft Ave., Manila | NCR | MisereorCEAP, DECS | 55 | Mr. N. Mefragata |
| Jan. 27 | Science Instrument Improvisation Course | Capas Elementary SchoolCapas, Tarlac | III | Misereor, CEAP San Miguel Corp. | 36 | Mr. N. Mefragata |
| **1988** |  |  |  |  |  |  |
| Jan. 18 | Improvisation of Low Cost Science Instruments | St. Theresa’s CollegeQuezon City | NCR | MisereorCEAP, DECS | 11 | Mr. N. Mefragata |
| Feb. 2 | Improvisation of Low Cost Science Instruments | Francisco Felix Memorial H. S.Cainta, Rizal | NCR | MisereorCEAP, DECS | 16 | Mr. N. Mefragata |
| Feb. 18 | Improvisation of Low Cost Science Instruments | Antipolo High SchoolAntipolo, Rizal | NCR | MisereorCEAP, DECS | 53 | Mr. N. Mefragata |

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| **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 SchoolTaft Ave., Manila | NCR | MisereorCEAP, DECS | 20 | Mr. N. Mefragata |
| Apr. 12 | Science Seminar Workshop | UP Institute of Science and Math EducationUP Diliman, Quezon City | NCR | MisereorUPISMED, DECS | 52 | Mr. N. Mefragata |
| Aug.18-20 | School Science Equipment Design Construction and Application | Central Luzon State UniversityMuñoz, Nueva Ecija | III | MisereorDiocese of San JoseDECS | 27 | Mr. N. Mefragata |
| Aug. 30 | Low Cost Science Instrument Improvisation | San Miguel CorporationTiaong, Quezon | IV | MisereorSan Miguel Corp. | 11 | Mr. N. Mefragata |
| Sept.8-10 | SSIDCAA | UPISMEDDiliman, Quezon City | NCR | MisereorDECS | 26 | Mr. N. Mefragata |
| Sept. 26 | Low Cost Science Equipment Improvisation & Recycling | Araullo High SchoolTaft Ave., Manila | NCR | MisereorDECS | 72 | Mr. N. Mefragata |
| Sept. 28Oct. 1 | SSIDCAA | Benguet State UniversityLa Trinidad, Benguet | NCR | MisereorDECS | 92 | Mr. N. Mefragata |
| Oct.7-9 | SSIDCAA | National Manpower & Youth Council Regional CenterCareg, Tuguegarao | II | MisereorNMYC | 50 | Mr. N. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Nov.6-1320-27 | Basic Electronics | De la Salle University & Don Bosco Technical College | NCR | MisereorDBTC & DLSU | 7 | Mr. N. MefragataMr. Dennis Lumbao |
| **1989** |  |  |  |  |  |  |
| Feb.23-25 | SSIDCAA | Pasil Elementary SchoolCebu City | VII | MisereorDECS & Reg. VII | 108 | Mr. N. Mefragata |
| Apr.11-13 | SSIDCAA | University of San AgustinIloilo City | VI | MisereorDECS & Reg. VI | 49 | Mr. N. MefragataMr. Nicolas Tan |
| Apr.10-15 | Basic ElectronicsApplied in Physics | Don Bosco Technical College & De la Salle University  | NCR | Misereor | 8 | Mr. N. MefragataMr. Dennis Lumbao |
| Apr.17-21 | SSIDCAA | Mindanao State UniversityMarawi City | X | Misereor, MSU Sch.System & DECS | 57 | Mr. N. MefragataDr. Perlen Ababa |
| May 9 | Low Cost Science Equipment Improvisation & Recycling | Teacher’s CampBaguio City | I | MisereorDECS | 199 | Mr. N. Mefragata |
| June3-4 | Science Instrumentation | Don Bosco Center of StudiesTalisay, Cebu | VII | MisereorCEAP, DECS | 40 | Bro. Carandang, SDB |
| July 26-28 | SSIDCAA | DECS Regional Learning Ctr.San Fernando, La Union | I | MisereorDECS | 56 | Mr. N. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Sept. 2 | SSIDCAA | UP Institute of Science & Math EducationUP Diliman, Quezon City | NCR | MisereorDECSUPISMED | 20 | Mr. N. Mefragata |
| Nov. 8 | Electroplating | Don Bosco Technical CollegeMandaluyong, M. M. | NCR | Misereor | 9 | Mr. N. Mefragata |
| **1990** |  |  |  |  |  |  |
| Apr.24-27 | SSIDCAA | Don Bosco Center of StudiesTalisay, Cebu | VII | MisereorCEAP, DECS | 12 | Bro. Carandang |
| May9-12 | Technology and Home Economics of the SEDP | St. Joseph CollegeQuezon City | NCR | MisereorCEAP, DECS | 107 | Mr. N. MefragataMr. Dennis Lumbao |
| May 29 | Improvisation of Low Cost Science Equipment | St. Joseph CollegeQuezon City | NCR | MisereorCEAP, DECS | 60 | Mr. N. MefragataMr. Dennis Lumbao |
| June 4 | Low Cost Science Instrument Improvisation | Pasay East High SchoolPasay City | NCR | MisereorCEAP, DECS | 31 | Mr. N. Mefragata |
| June10-14 | Science Instrument Improvisation Course (for American Peace Corps Volunteers) | Teacher’s CampBaguio City | I | MisereorU. S. EmbassyU. S. Peace CorpsVolunteers | 76 | Mr. N. Mefragata |
| Sept. 15 | Technical Seminar on Electronics | St. Scholastica’s CollegeManila | NCR | MisereorCEAP | 8 | Mr. N. Mefragata |

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| **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 CollegeMandaluyong, M. M. | NCR | MisereorDBTC | 23 | Mr. N. Mefragata |
| Oct. 6 | Improvisation of Low Cost Science Instruments | UP Institute of Science & Math EducationUP Diliman, Quezon City | NCR | MisereorDECSUPISMED | 10 | Mr. N. Mefragata |
| **1991** |  |  |  |  |  |  |
| May6-16 | Technology and Home Economics National Trainors Training | Don Bosco Technical CollegeMandaluyong City | NCR | MisereorDECSFAPE | 13 | Mr. N. MefragataMr. Jun BesarioMr. Anthony Nolasco |
| May 19June 11 | Technology and Home Economics National Trainors Training | Don Bosco Technical CollegeMandaluyong City | NCR | MisereorDECS | 14 | Mr. N. MefragataMr. J. BesarioMr. A. Nolasco |
| June3-4 | Technology and Home Economics Seminar Workshop | St. Stephen High SchoolTondo, Manila | NCR | MisereorDECS (NCR) | 33 | Mr. N. MefragataMr. J. BesarioMr. A. Nolasco |
| Aug. 4 | Maintenance and Optimum use of School Science Materials | Rio Tuba High SchoolBataraza, Palawan | IV | MisereorRio Tuba Nickel Mine & DECS | 34 | Mr. N. Mefragata |
| Nov.10-17 | Upgrading Seminar Workshop for National Trainors | Teacher’s CampBaguio City | I | MisereorDECS | 39 | Mr. N. Mefragata**18** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Dec.12-14 | SSIDCAA | Central Luzon State UniversityMuñoz, Nueva Ecija | III | Misereor, DECSDiocese of San Jose | 32 | Mr. N. Mefragata |
| **1992** |  |  |  |  |  |  |
| Feb.6-7 | SSIDCAA | Don Bosco SchoolSta. Mesa, Manila | NCR | MisereorManila Association of Private Elem. Sch. Administrators | 61 |  |
| Apr.25-29 | Technology and Home Economics | Don Bosco Technical CollegeMandaluyong City | NCR | MisereorDECSFAPE | 28 | Mr. N. Mefragata |
| July 28 | SSIDCAA | Philippine Academy of SakyaTondo, Manila | NCR | MisereorCEAP, DECS | 43 | Mr. N. Mefragata |
| Aug.4-5 | SSIDCAA | Ateneo de ZamboangaZamboanga City | IX | MisereorZABAPS, DECS | 47 | Mr. N. Mefragata |
| Aug.7-8 | SSIDCAA | St. Columban CollegePagadian City | IX | MisereorZABAPS, DECS |  | Mr. N. Mefragata |
| Aug. 21 | Lab. Management and Methods of Teaching | Don Bosco Technical InstituteMakati, M. M. | NCR | MisereorDBTC - CRT | 9 | Mr. N. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **1993** |  |  |  |  |  |  |
| Feb.9-12 | SSIDCAA | Mindanao State UniversityMarawi City | X | Misereor, DECSMSU Sch. System | 100 | Mr. N. MefragataDr. Ababa |
| May 10June 5 | Technical Training for Technical Instructors | Don Bosco Technical CollegeMandaluyong City | NCR | MisereorDBTCDon Bosco Technical Commission | 23 | Mr. N. MefragataandBED-Tech Staff |
| May21-27 | SSIDCAA | Misamis UniversityOzamis City | X | Misereor, DECSPrivate School | 18 | Dr. AbabaProf. Martin |
| Aug. 4 | Creative Approach in Science Instrument Improvisation | University of the PhilippinesDiliman, Quezon City | NCR | MisereorPAPSCU | 108 | Mr. N. Mefragata |
| Sept. to Oct. | Science Seminar Workshop | Don Bosco SeminaryCanlubang, Laguna | IV | MisereorDBTC - Canlubang | 12 | Fr. G. Schwarz, SDB |
| Oct.18-21 | Science Workshop on School Science Instrument Design Construction & Application | Mindanao State UniversityBongao, Tawi-Tawi | IX | MisereorMSUDECS | 40 | Mr. N. MefragataDr. Perlen Ababa |
| Oct.26-29 | SSIDCAA | St. Joseph Institute of Tech.Butuan City | X | MisereorMSU, DECS | 19 | Mr. N. MefragataDr. Ababa |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Nov. 23 | Methods of Training and Classroom Management | Arsenal, DNDLimay, Bataan | III | MisereorDept. of National Defense | 30 | Mr. N. Mefragata |
| Nov.24-25 | SSIDCAA | Phil. Social Science CouncilQuezon City | NCR | MisereorABAP | 24 | Mr. N. Mefragata |
| **1994** |  |  |  |  |  |  |
| Feb. 7 | SSIDCAA | Colegio de Sta. Rosa de LimaSta. Rosa, Laguna | IV | MisereorDECS | 48 | Mr. N. Mefragata |
| Mar. 4 | SSIDCAA | Pasacao School of FisheriesPasacao, Camarines Sur | V | MisereorDECS | 33 | Mr. N. Mefragata |
| Apr. 4 | SSIDCAA | Bulacan State UniversityMalolos, Bulacan | III | Misereor, PAPIDECS, DOST | 4 | Mr. N. MefragataMr. John Mefragata |
| Apr.11-12 | SSIDCAA | Eastern Samba National Comprehensive High SchoolBorongan, Eastern Samar | VIII | Misereor, DECSDon Bosco Training Center | 33 | Mr. N. Mefragata |
| Sept.9-10 | SSIDCAA | Colegio de Sta. CeciliaValenzuela, M. M. | NCR | Misereor | 18 | Mr. N. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **1995** |  |  |  |  |  |  |
| Jan.19-21 | SSIDCAA | Notre Dame of CotabatoCotabato City | XI | Misereor | 58 | Mr. N. Mefragata |
| Apr.4-7 | SSIDCAA | Central Philippine UniversityIloilo City | IV | Misereor | 52 | Mr. N. MefragataMr. Gil Espinosa |
| Apr.24-26 | SSIDCAA | Don Bosco High SchoolSta. Cruz, Laguna | IV | MisereorDon Bosco Training Center | 75 | Mr. N. MefragataBro. PitogoBro. TicsayBro. San Juan |
| May29-31 | SSIDCAA | Don Bosco Technical High SchoolPunta Princesa, Cebu City | VII | Misereor, DECSDon Bosco Training Ctr. | 28 | Mr. N. MefragataMr. John Mefragata |
| Aug.22-25 | SSIDCAA | Pasay East High SchoolPasay City | NCR | MisereorDECS | 77 | Mr. N. Mefragata |
| Oct.5-7 | SSIDCAA | Total Child SchoolTanauan, Batangas | IV | MisereorDECS | 54 | Mr. N. Mefragata |
| Oct.20-21 | SSIDCAA | University of the PhilippinesPAPSCU | NCR | MisereorPAPSCU | 63 | Mr. N. MefragataBro. San Juan Bro. Ticsay |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Nov.9-11 | SSIDCAA | Diocese of PagadianPagadian City | IX | MisereorDiocese of Pagadian | 31 | Mr. N. MefragataDr. P. Ababa |
| **1996** |  |  |  |  |  |  |
| Feb.15-17 | SSIDCAA | Don Bosco High SchoolSta. Cruz, Laguna | IV | MisereorDon Bosco, CEAP | 75 | Mr. N. Mefragata |
| Mar.14-15 | SSIDCAA | Pasay South High SchoolPasay City | NCR | MisereorDon Bosco, CEAP | 77 | Mr. N. Mefragata |
| Apr.24-25 | SSIDCAA | Total Child SchoolTanauan, Batangas | IV | MisereorDon Bosco, CEAP | 54 | Mr. N. Mefragata |
| May 26 | SSIDCAA | Phil. Business for Social ProgressIntramurous, Manila | NCR | MisereorBPS | 32 | Mr. N. Mefragata |
| May 27 | SSIDCAA | University of San Jose–RecolletosBasak Campus, Cebu City | VII | MisereorDBTC - Mandaluyong | 24 | Mr. N. Mefragata |
| Oct.3-5 | SSIDCAA | Don Bosco Technical CollegeMandaluyong City | NCR | MisereorDon BoscoCEAP, FAPE | 36 | Mr. N. MefragataMr. Roberto VillegasMr. Aries Cabacungan |
| Oct.10-12 | SSIDCAA | Holy Family AcademyAngeles, Pampanga | III | MisereorDon BoscoCEAP, FAPE | 40 | Mr. N. MefragataMr. Roberto VillegasMr. Aries Cabacungan |

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| **YEAR****DA TE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Oct.17-19 | SSIDCAA | Rogationist AcademySilang, Cavite | IV | MisereorDon BoscoCEAP, FAPE | 39 | Mr. N. MefragataMr. R. VillegasBro. A. Cabacungan |
| Oct.24-26 | SSIDCAA | Ateneo de NagaNaga City | V | MisereorDon BoscoCEAP, FAPE | 38 | Mr. N. MefragataMr. J. MefragataMr. D. Fantilanan |
| Nov.7-9 | SSIDCAA | St. Louis CollegeSan Fernando, La Union | I | Misereor, Don BoscoCEAP, FAPE | 49 | Mr. N. MefragataMr. R. Villegas |
| Nov.14-16 | SSIDCAA | La Salette CollegeIsabela, Santiago | II | Misereor, Don BoscoCEAP, FAPE | 27 | Mr. N. MefragataMr. R. Villegas |
| Nov.28-30 | SSIDCAA | University of San AgustinIloilo City | VI | Misereor, Don BoscoCEAP, FAPE | 35 | Mr. N. MefragataMr. Gil Espinosa |
| **1997** |  |  |  |  |  |  |
| Jan.9-11 | SSIDCAA | Holy Infant CollegeTacloban City | VIII | Misereor, Don BoscoCEAP, FAPE | 42 | Mr. N. MefragataMr. R. Villegas |
| Jan.16-18 | SSIDCAA | Ateneo de ZamboangaZamboanga City | IX | Misereor, Don BoscoCEAP, FAPE | 40 | Mr. N. MefragataDr. P. Ababa |
| Jan.23-25 | SSIDCAA | Xavier UniversityCagayan de Oro City | X | Misereor, Don BoscoCEAP, FAPE | 36 | Mr. N. MefragataDr. P. Ababa |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Jan. 29Feb. 1 | SSIDCAA | Camarines Sur InstitutePasacao, Camarines Sur | V | Misereor, Don BoscoCEAP, FAPE | 18 | Mr. N. MefragataMr. R. VillegasMr. D. Fantilanan |
| Feb.6-8 | SSIDCAA | Ateneo de DavaoDavao City | XI | Misereor, Don BoscoCEAP, FAPE | 32 | Mr. N. MefragataDr. P. Ababa |
| Feb.12-14 | SSIDCAA | University of San CarlosCebu City | VII | Misereor, Don BoscoCEAP, FAPE | 35 | Mr. N. MefragataDr. P. Ababa |
| Feb. 28Mar. 2 | SSIDCAA | Notre Dame of CotabatoCotabato City | XII | Misereor, Don BoscoCEAP, FAPE | 28 | Mr. N. Mefragata |
| Nov.29-30 | SSIDCAA | Don Bosco’s Tuloy FoundationMakati City | NCR | Misereor, Don Bosco | 14 | Mr. N. Mefragata |
| **1999** |  |  |  |  |  |  |
| Feb.18-20 | SSIDCAA | Holy Trinity CollegePuerto Princesa City | IV | MisereorDon Bosco, CEAP | 28 | Mr. N. MefragataFr. Charles Manlangit |
| Mar.4-6 | SSIDCAA | San Isidro CollegeMalaybalay, Bukidnon | X | MisereorDon Bosco, CEAP | 42 | Mr. N. MefragataDr. P. Ababa |
| Apr.6-8 | SSIDCAA | Bicol UniversityLegaspi City | V | MisereorDon Bosco, PAPI | 45 | Mr. N. MefragataMr. J. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Apr.14-16 | SSIDCAA | Holy Trinity CollegePuerto Princesa City | IV | Misereor, GermanyDon Bosco, Phil. | 21 | Mr. N. MefragataMr. J. Mefragata |
| Apr.28-30 | SSIDCAA | University of San CarlosTalamban, Cebu City | VII | Misereor, Don Bosco SMEI, USC | 35 | Mr. N. MefragataMr. J. Mefragata |
| May4-7 | SSIDCAA | Holy Infant CollegeTacloban City | VIII | Misereor, Don Bosco CEAP, Metro Bank | 30 | Mr. N. MefragataMr. J. Mefragata |
| May25-28 | SSIDCAA | St. Joseph CollegeMaasin, Southern Leyte | VIII | Misereor, Don Bosco Diocese of Maasin | 65 | Mr. N. Mefragata |
| Sept. 18 | Electronics | Liceo de los BañosLos Baños, Laguna | VI | Misereor, Don BoscoSalesiana Publisher | 57 | Mr. N. Mefragata |
| Oct.13-15 | Seminar Workshop in Physics | Central Luzon UniversityMuñoz, Nueva Ecija | III | Misereor, Don Bosco Luzon Science Consortium | 88 | Mr. N. MefragataMr. J. Mefragata |
| Oct.20-22 | SSIDCAA | U. P. Alumni CenterU. P. Diliman, Quezon City | NCR | Misereor, GermanyDon Bosco, PAPSCU | 17 | Mr. N. Mefragata |
| Nov.6 & 13 | SSIDCAA | Don Bosco SchoolSta. Mesa, Manila | NCR | Misereor. GermanyDon Bosco, Phil. | 15 | Mr. N. MefragataMr. Eugene Sinlao |
| Nov.20, 27 & Dec. 4 | SSIDCAA | Don Bosco AcademyMabalacat, Pampanga | III | Misereor, GermanyDon Bosco, Phil. | 22 | Mr. N. MefragataMr. Antonio delos Reyes |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Dec. 10-12 | SSIDCAA | Don Bosco Technical InstituteTarlac City | III | Misereor, GermanyDon Bosco, Phil. | 11 | Mr. N. MefragataMr. Antonio delos Reyes |
| **2000** |  |  |  |  |  |  |
| Feb.27-29 | SSIDCAA | Immaculate Conception CollegeBoac, Marindoque | IV | Misereor, GermanyDon Bosco, Phil. | 47 | Mr. N. MefragataMr. D. Fantilanan |
| May 20 | SSIDCAA | Philippine Normal UniversityTaft, Manila | NCR | Misereor, GermanyDon Bosco, Phil. | 151 | Mr. N. MefragataMr. J. Mefragata |
| **2001** |  |  |  |  |  |  |
| Jan. 6 | SSIDCAA | N. F. Mefragata EnterprisesMandaluyong City  | NCR | Don Bosco, Phil.Gifted Learning Ctr. | 9 | Mr. N. Mefragata |
| Apr.18-20 | SSIDCAA | Don Bosco Technical InstituteVictorias, Negros Occidental | VI | Don Bosco, Phil. | 37 | Mr. N. Mefragata |
| June14-15 | SSIDCAA | Immaculate Conception Catholic SchoolSta. Cruz, Laguna | IV | Don Bosco, Phil. | 30 | Mr. N. Mefragata |
| Aug. 24 | SSIDCAA | St. Mary’s AcademyBaliuag, Bulacan | III | Don Bosco, Phil.St. Mary’s Academy | 31 | Mr. N. Mefragata |

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| **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 BoscoPhil. Foundation for Science and Technology | 58 | Mr. N. Mefragata |
| Sept.27-29 | SSIDCAA | RVM Regional HouseMatina, Davao City | XI | Don BoscoN. F. Mefragata Ent. | 17 | Mr. N. Mefragata |
| **2003** |  |  |  |  |  |  |
| April 28to May 2 | Interactive Strategiesin the Teaching of Science Concepts | JVR Training Center, EMCORBajada, Davao City | XI | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 31 | Mr. Mefragata |
| May5-9 | Interactive Strategiesin the Teaching of Science Concepts | JVR Training CenterMandaue City | VII | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 32 | Mr. Mefragata |
| May19-23 | Interactive Strategiesin the Teaching of Science Concepts | IWS Training CenterLuisita Ind. Park, Tarlac City | III | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 32 | Mr. Mefragata |
| Aug.25-29 | Interactive Strategiesin the Teaching of Science Concepts | IWS Training CenterLuisita Ind. Park, Tarlac City | III | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 51 | Mr. Mefragata |
| Sept.15-19 | Interactive Strategiesin the Teaching of Science Concepts | IWS Training CenterLuisita Ind. Park, Tarlac City | III | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 49 | Mr. Mefragata**28** |

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

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Apr.26-30 | Interactive Strategiesin the Teaching of Science Concepts | EMCOR Training CenterBajada, Davao City | XI | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 38 | Mr. N. Mefragata,Mr. J. Mefragata,Mr. E. Meneses,Mr. J. Cano,Mr. A. Mercader |
| May27-29 | Interactive Strategiesin the Teaching of Science Concepts | Ateneo de ManilaQuezon City | NCR | N. F. Mefragata Ent.Philippine Found. for Science & Techn. | 27 | Mr. N. Mefragata,Mr. J. Mefragata, |
| July26-30 | Interactive Strategiesin the Teaching of Science Concepts | Brentwood ApartelleBaguio City | CAR | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 51 | Mr. N. Mefragata,Mr. J. Mefragata,Mr. E. Meneses,Mr. Rizal Andrade,Mr. A. Mercader |
| Aug.2-6 | Interactive Strategiesin the Teaching of Science Concepts | Brentwood ApartelleBaguio City | CAR | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 51 | Mr. N. Mefragata,Mr. J. Mefragata,Mr. A. Mercader,Mr. J. CanoMr. Ferdie Sanchez |
| Aug.9-13 | Interactive Strategiesin the Teaching of Science Concepts | Brentwood ApartelleBaguio City | CAR | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 50 | Mr. N. Mefragata,Mr. J. Mefragata,Mr. E. Meneses,Mr. Albert Datu,Mr. A. Mercader |

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| **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 CollegeMandaluyong City | NCR | N. F. Mefragata Ent. | 5 | Mr. N. Mefragata |
| Oct.15 | Safety & Laboratory Procedures | Don Bosco Technical CollegeMandaluyong City | NCR | N. F. Mefragata Ent. | 26 | Mr. N. Mefragata |
| Nov.11-12 | Interactive Strategiesin the Teaching of Science Concepts | San Guillermo Nat’l High SchoolSan Guillermo, Zambales | III | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 35 | Mr. N. Mefragata,Mr. J. Mefragata,Mr. R. Andrade |
| **2005** |  |  |  |  |  |  |
| Apr.3-8 | Interactive Strategiesin the Teaching of Science Concepts | JVR Training Center EMCOR Comp. J. P. Laurel Ave., Bajada, Davao City | XI | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 41 | Mr. N. Mefragata,Mr. J. Mefragata,Mr. E. Meneses,Mr. Rubidell EspirituMr. Jancelle Macaindig |
| Apr.10-15 | Interactive Strategiesin the Teaching of Science Concepts | JVR Training Center EMCOR Comp. J. P. Laurel Ave., Bajada, Davao City | XI | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 62 | Mr. N. Mefragata,Mr. J. Mefragata,Mr. E. Meneses,Mr. R. ESpiritu |
| Apr.24-29 | Interactive Strategiesin the Teaching of Science Concepts | The Regent HotelElias Angeles St., Naga City | V | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 50 | Mr. N. MefragataMr. Albert DatuMr. Rizal M. AndradeMr. John Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| May20-22 | Interactive Strategiesin the Teaching of Science Concepts | Barangka Elementary SchoolBarangka, Marikina City | NCR | N. F. Mefragata Ent.Phil. Foundation for Science & Tech. | 60 | Mr. N. Mefragata |
| May1-6 | Interactive Strategiesin the Teaching of Science Concepts | The Regent HotelElias Angeles St., Naga City | V | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 50 | Mr. N. Mefragata,Mr. Albert Datu,Mr. Rizal M. AndradeMr. John Mefragata |
| May12-14 | Interactive Strategiesin 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 |
| May15-20 | Interactive Strategiesin the Teaching of Science Concepts | The Legend HotelPuerto Princesa, Palawan | IV | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 51 | Mr. N. Mefragata,Mr. J. Mefragata,Mr. E. Meneses,Mr. F. Sanchez |
| May22-27 | Interactive Strategiesin the Teaching of Science Concepts | The Legend HotelPuerto Princesa, Palawan | IV | N. F. Mefragata Ent.JVR Foundation, IncNEAP-DepEd | 50 | Mr. N. Mefragata,Mr. J. Mefragata,Mr. E. Meneses,Mr. F. Sanchez |
| July17-22 | Interactive Strategiesin the Teaching of Science Concepts | Mariano Marcos Memorial ESBatac, Ilocos Norte | I | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 56 | Mr. N. MefragataMr. Rubidell EspirituMr. J. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| July25-29 | Interactive Strategiesin the Teaching of Science Concepts | Ilocos Sur National High SchoolVigan City | I | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 57 | Mr. N. MefragataMr. J. MefragataMr. R. Espiritu |
| July 31Aug. 5 | Interactive Strategiesin the Teaching of Science Concepts | La Union National High SchoolSan Fernando City | I | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 58 | Mr. N. MefragataMr. J. MefragataMr. R. Espiritu |
| Aug.8-12 | Interactive Strategiesin the Teaching of Science Concepts | BSL Hall, DepEd Division OfficeDagupan City | I | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 32 | Mr. N. MefragataMr. J. MefragataMr. Roger Lucas |
| Aug.15-19 | Interactive Strategiesin the Teaching of Science Concepts | Speaker Eugenio Perez NationalAgricultural SchoolSan Carlos City, Pangasinan | I | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 35 | Mr. N. MefragataMr. J. MefragataMr. Rodrigo Reyes |
| Aug.22-26 | Interactive Strategiesin the Teaching of Science Concepts | Lingayen National High SchoolLingayen, Pangasinan | I | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 37 | Mr. N. MefragataMr. J. MefragataMr. Virgil SamonteMr. Jose Ramil SibunMr. Ramon Estrada |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Aug. 28Sept. 2 | Interactive Strategiesin the Teaching of Science Concepts | Benigno V. Aldana Nat’l H. S.Pozorrubio, Pangasinan | I | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 123 | Mr. N. MefragataMr. J. MefragataMr. R. EspirituMr. R. ReyesMr. R. LucasMr. V. SamonteMr. J. R. SibunMr. R. Estrada |
| **2006** |  |  |  |  |  |  |
| Apr.17-21 | Interactive Strategiesin the Teaching of Science Concepts | Pres. Roxas High SchoolNorth Cotabato, Kidapawan City | XII | N. F. Mefragata Ent.SEDIPDepEd | 418 | Mr. N. Mefragata |
| Apr.23-28 | Interactive Strategiesin the Teaching of Science Concepts | Centenial Plaza HotelJalandoni St., Iloilo City | VI | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 98 | Mr. N. MefragataMr. J. MefragataMr. D. FantilananMr. E. MenesesMr. R. Espiritu |
| May7-12 | Interactive Strategiesin the Teaching of Science Concepts | Villa Victoria HotelTuguegarao City, Cagayan | II | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 97 | Mr. N. MefragataMr. J. MefragataMr. D. FantilananMr. R. LucasMr. V. Boado |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| May 28June 2 | Interactive Strategiesin the Teaching of Science Concepts | Leyte Park HotelTaacloban City, Leyte | VII | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 103 | Mr. N. MefragataMr. J. MefragataMr. D. FantilananMr. E. MenesesMr. A. DatuMr. V. Samonte |
| **2007** |  |  |  |  |  |  |
| Jan. 27Feb. 3, 4, 10, 11 | Interactive Strategiesin the Teaching of Science Concepts | Semirara Mines Corp.Semirara Island | VI | N. F. Mefragata Ent.DepEd, SemiraraMines Corp. | 48 | Mr. N. Mefragata |
| Apr.2 – 4 | Interactive Strategiesin the Teaching of Science Concepts | Bauan East Central SchoolBauan, Batangas |  | N. F. Mefragata Ent.DepEdKampon ni Pakakak | 54 | Mr. N. Mefragata |
| Apr.15 – 20 | Interactive Strategiesin the Teaching of Science Concepts | Development Academy of the PhilippinesSUngay East, Tagaytay City | IV-A | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 49 | Mr. N. MefragataMr. J. MefragataMr. R. AndradeMr. E. MenesesMr. R. EspirituMr. F. SanchezMr. D. Moreno |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2007** |  |  |  |  |  |  |
| Apr.22 – 27 | Interactive Strategiesin the Teaching of Science Concepts | Development Academy of the PhilippinesSungay East, Tagaytay City | IV-A | N. F. Mefragata Ent.JVR Foundation, IncDepEd | 49 | Mr. N. MefragataMr. J. MefragataMr. R. AndradeMr. E. MenesesMr. R. EspirituMr. F. SanchezMr. D. Moreno |
| Oct. 22-24 | Interactive Strategiesin the Teaching of Science Concepts | San Juan de LetranBatangas City | IV |  |  | Mr. N. Mefragata |
| **2008** |  |  |  |  |  |  |
| Jan. 5 | Interactive Strategiesin the Teaching of Science Concepts | Cam. Sur Agricultural State Col.Pili, Camarines Sur | V | Phil. Physics SocietyN. F. Mefragata Ent. | 120 | Mr. N. F. Mefragata |
| Feb. 3 | Interactive Strategiesin the Teaching of Science Concepts | Maxino CollegeDumaguete City | VII | N. F. Mefragata Ent. | 8 | Mr. N. F. Mefragata |
| Mar.31 | Interactive Strategiesin the Teaching of Science Concepts | GMT Delgado Elem. SchoolSta. Barbara, Iloilo | VI | N. F. Mefragata Ent.DepEdMs. Amalia Soqueña | 22 | Mr. N. F. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2008** |  |  |  |  |  |  |
| Apr.2-5 | Interactive Strategiesin the Teaching of Science Concepts | Siguijor State CollegeSiquijor | VII | PPS-SiquijorState UniversityN. F. Mefragata Ent. | 250 | Mr. N. F. Mefragata |
| May 7 | Interactive Strategiesin the Teaching of Science Concepts | Sta. Barbara DistrictIloilo City | VI | Dept. of Elementary EducationSta. Barbara District | 107 | Mr. N. F. Mefragata |
| May 8 | Interactive Strategiesin the Teaching of Science Concepts | Don Bosco Technical CollegeVictorias, Negros Occidental | NCR | N. F. Mefragata Ent. | 8 | Mr. N. F. Mefragata |
| Sept. 20 | Interactive Strategiesin the Teaching of Science Concepts | LIDE Learning Center, Inc.Isabel, Leyte | VIII | PASAR Foundation, Inc. | 92 | Mr. N. F. Mefragata |
| Oct.27-29 | Low Cost ScienceInstrument Design | International Conference in Science and Math UPNISMED | NCR | UPNISMED | 100+ | Mr. N. F. Mefragata |
| **2009** |  |  |  |  |  |  |
| Feb. 16 | Interactive Strategiesin the Teaching of Science Concepts | Don Bosco Technical CollegeMandaluyong City | NCR | N. F. Mefragata Ent. | 21 | Mr. N. F. Mefragata |
| May 23 | Interactive Strategiesin the Teaching of Science Concepts | Ateneo UniversityKatipunan, Quezon City | NCR | Paseo TLJ Education Services | 57 | Mr. N. F. Mefragata**37** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2009** |  |  |  |  |  |  |
| Aug.10 & 17 | Interactive Strategiesin the Teaching of Science Concepts | Phil Foundation for Sci. & Tech.River Banks, Marikina City | NCR |  | 10 | Mr. N. F. Mefragata |
| Sept.29 & 30 | Creativity in Science Teaching | Ecotech, LahugCebu City | AllRegions | 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, N. F. Mefragata Ent. | 80 | Mr. N. F. Mefragata |
| **2010** |  |  |  |  |  |  |
| Jan.20-22 | Science Instrument Design Construction Contest | Dagupan National SchoolDagupan City | Region I | DepEd Region I | 50 | Mr. N. F. Mefragata |
| April7-10 | Low Cost Science Instrument Design, Construction and Application | Xavier UniversityCagayan de Oro City | X | Phil. Physics SocietyN. F. Mefragata Ent. | 258 | Mr. N. F. Mefragata |
| April12 | Low Cost Science Instrument use in the Secondary Level | Pagdugui National High SchoolDumangas, Iloilo | VI | Parents Teachers Association (PTA)N. F. Mefragata Ent. | 12 | Mr. N. F. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2010** |  |  |  |  |  |  |
| April13 | Low Cost Science Instrument use in the Secondary Level | Palanguia National High SchoolPututan, Iloilo | VI | Parents Teachers Association (PTA)N. F. Mefragata Ent. | 28 | Mr. N. F. Mefragata |
| April17 | Climate Change | Kimberly HotelPedro Gil, Manila | Inter-national | Department of National DefenseN.F.Mefragata Ent. | 22 | Mr. N. F. Mefragata |
| Oct.15 | Interactive andIntegrative Teaching | San Pablo Colleges (H.S.)San Pablo City | IV-A | N.F.Mefragata Ent. | 42 | Mr. N. F. Mefragata |
| Oct.27  | Interactive andIntegrative Teaching | St. Ignatius de Loyola SchoolTaguig City | NCR | N.F.Mefragata Ent. | 17 | Mr. N. F. Mefragata |
| **2011** |  |  |  |  |  |  |
| Jan.19 | Interactive andIntegrative Teaching | Real Elementary SchoolUrbiztondo, Pangasinan | I | DepEd andN.F.Mefragata Ent. | 19 | Mr. N. F. Mefragata |
| Jan.19-21 | Science InstrumentImprovisation andInvention | Dagupan National High SchoolDagupan City | I | DepEd andN.F.Mefragata Ent. | 90 | Mr. N. F. Mefragata |
| Feb.25 | Interactive andIntegrative Teaching | Phil. Foundation for Sci. & Tech.Riverbanks, Marikina City | NCR | N.F.Mefragata Ent. | 78 | Mr. N. F. Mefragata |
| April6-10 | Science InstrumentDesign, constructionand Applications | Siliman UniversityDumaguete City | VII | Phil. Physics SocietySiliman University andN.F.Mefragata Ent. | ±300 | Mr. N. F. Mefragata**39** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2011** |  |  |  |  |  |  |
| April25 | Interactive andIntegrative Teaching | Munting Ilog National High SchoolSilang, Cavite | IV | N.F.Mefragata Ent.Fil. Inventors Society | 26 | Mr. N. F. Mefragata |
| May17 | Interactive andIntegrative Teaching | Phil. Science CentrumRiverbanks, Marikina City | NCR | N.F.Mefragata Ent. | 19 | Mr. N. F. Mefragata |
| May30 | Basic Electricity | Executive LoungeDOST | NCR | N.F.Mefragata Ent. Filipino Inventors Society | 106Inventors | Mr. N. F. MefragataEngr. TalionEngr. Freires |
| June3 | Ornamental DrawingElectricityTechnical Drawing | 500 San Joaquin St. Mand. CitySt. Ignatius of Loyola | NCR | N.F.Mefragata Ent.St. Ignatius | 4 | Mr. N. F. Mefragata |
| **2012** |  |  |  |  |  |  |
| Jan.6 | School Science Instruments | Daraitan National High SchoolDaraitan, Tanay Rizal | NCR | N.F.Mefragata Ent.Filipino Investors Society | 17 | Mr. N. F. MefragataMr. Modanza |
| Jan.11 | School Science Instruments | Dalig National High SchoolAntipolo City | NCR | N.F.Mefragata Ent. | 28 | Mr. N. F. Mefragata |
| Feb.8 | Creativity/Invention | ABE School of Business and AccountancyCubao, Quezon City | NCR | N.F.Mefragata Ent.Fil. Inventors Society | 108 | Mr. N. F. MefragataMr. Modanza |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2012** |  |  |  |  |  |  |
| April13 | Creativity and Improvisation | RELCMarikina | NCR | N.F.Mefragata Ent.DepEd | 54 VocTec Principals | Mr. N. F. Mefragata |
| April | Science Topics | Xavier UniversityCagayan de Oro City |  | N.F.Mefragata Ent.PPS | 230 Physics teachers | Mr. N. F. Mefragata |
| May | Creativity/Invention | ABE SchoolCubao, Quezon City | NCR | N.F.Mefragata Ent. | 64 students | Mr. N. F. MefragataMr. Modanza |
| Sept.11 | CreativityInnovation & Invention | St. Rafael SchoolSan Fernando, Pampanga | III | N.F.Mefragata Ent. | 49 | Mr. N. F. MefragataMr. B. Modanza |
| Oct.26 | Science Instrument Improvisation | District Office of DepEdMandaluyong City | NCR | N.F.Mefragata Ent. | 86 science teachers | Mr. N. F. Mefragata |
| **2013** |  |  |  |  |  |  |
| April | Physics Instrument Improvisation | Ateneo de DavaoDavao City |  | Phil. Physics SocietyN.F.Mefragata Ent. | 300+ | Mr. N. F. MefragataMr. Moreno |
| **2014** |  |  |  |  |  |  |
| April | Physics Demonstration | Maxino CollegeDumaguete City |  | Phil. Physics SocietyN.F.Mefragata Ent. | 300+ | Mr. N. F. MefragataMr. R. Moreno |
| May | Instrumentation | LACA, BaliuagBulacan | III | N.F.Mefragata Ent. | 17 | Mr. N. F. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2014** |  |  |  |  |  |  |
| July | Science Apparatuses Improvisation | PNU | NCR | N.F.Mefragata Ent.PNU | 340+ students | Mr. N. F. Mefragata |
| July24 | Science Apparatuses Improvisation | PNU | NCR | N.F.Mefragata Ent.PNU | 300+students  | Mr. N. F. Mefragata |
| Oct.25 | Low Cost Science Instrument Design | School in Las Piñasc/o Mrs. Alvarez | NCR | N.F.Mefragata Ent. | 18 | Mr. N. F. Mefragata |
| Dec.18 | Science Improvisation & Methods of Teaching | Ilpidio Quirino High School | NCR | N.F.Mefragata Ent. | 118 | Mr. N. F. Mefragata |
| **2015** |  |  |  |  |  |  |
| Jan.17 | Interactive Science Teaching in the Elementary Level | Agdangan Elementary SchoolAgdangan Quezon | IV | N.F.Mefragata Ent. | 64 teachers and4 principals | Mr. N. F. MefragataMr. R. MorenoMr. R. Danque |
| Feb.26-27 | Interactive Science and Physics Teaching | Koronadal Comprehensive National High SchoolKoronadal, South Cotabato |  | N.F.Mefragata Ent. | 38 | Mr. N. F. MefragataMr. R. Moreno |
| Apr.7-11 | Physics Demonstration and Seminar Workshop | University of Northern Phil.Vigan | I | N.F.Mefragata Ent.PPS | 408 | Mr. N. F. MefragataMr. R. Moreno |
| May14 | Interactive Science | Siena College of TaytayTaytay Rizal | NCR | N.F.Mefragata Ent. | 17 | Mr. N. F. MefragataMr. R. Moreno**42** |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2015** |  |  |  |  |  |  |
| May26 | Low Cost ScienceSSIDCAA | R and O AcademyVillamor | NCR | N.F.Mefragata Ent. | 14 | Mr. N. F. Mefragata |
| Sept.5 | Interactive andIntegrative Teaching | Bonifacio Javier Nat’l High School | NCR | N.F.Mefragata Ent. | 17 | Mr. N. F. MefragataMr. R. Moreno |
| Nov.9 | Interactive andIntegrative Teaching | Baptist SchoolsCavite City | IV | N.F.Mefragata Ent. | 13 teachers62 students | Mr. N. F. MefragataMr. R. MorenoPastor Noy Daculan |
| **2016** |  |  |  |  |  |  |
| Jan.21-22 | Interactive andIntegrative Teaching | Pedro P. Cruz Elementary SchoolBarangka, Mandaluyong City | NCR | N.F.Mefragata Ent. | 88 | Mr. N. F. Mefragata |
| Feb.22-23 | Creativity Innovation Invention | Phil Science CentrumMarikina City | NCR | N. F. Mefragata Ent.PFST | 15 | Mr. N. F. Mefragata |
| Apr.6-9 | Physics Instrument Design & Construction | Mindanao Central UniversityMusuan, Maramag, Bukidnon | 10 | N. F. Mefragata Ent.Phil Physics Society | 317 | Mr. N. F. MefragataMr. R. Moreno |
| Apr.13-16 | Science interactive Teaching | Calaca Power PlantBatangas City | I | N. F. Mefragata Ent.Phil Foundation for Science and Tech. | 37 | Mr. N. F. MefragataMr. R. Moreno n m |
| May | Creativity andTechnical Drawing | Science CentrumMarikina City |  | N. F. Mefragata Ent.PFST | 12 | Mr. N. F. Mefragata |

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| **YEAR****DATE** | **Seminar****Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2016** |  |  |  |  |  |  |
| June6-7 | Interactive Science Teaching | Batino Elementary SchoolBatino, Quezon City | NCR | Rotary Club of Quezon City | 37 | Mr. N. F. MefragataMr. R. MorenoMr. R. MoyaMr. R. Bautista |
| Dec.20 | Values Clarification Seminar | AIMMakati City | NCR | JVR FoundationN.F.Mefragata Ent. | 38 | Mr. N. F. Mefragata |
| Dec.27 | Values Clarification Seminar | IWSTarlac City | NCR | JVR FoundationN.F.Mefragata Ent. | 40 | Mr. N. F. Mefragata |
| **2017** |  |  |  |  |  |  |
| Feb.20 | Values Education | Philippine Science CentrumMarikina City | NCR | N.F.Mefragata Ent. | 20 | Mr. N. F. Mefragata |
| Apr.19-22 | Science interactive Teaching | Calaca Power PlantCalaca, Batangas City | I | N. F. Mefragata Ent. | 35 Elem.28 H.S. | Mr. N. F. Mefragata |
| Apr.26-27 | Physics Instrument Design & Construction | Baler, Aurora | I | N. F. Mefragata Ent.Found. For Science and Technology | 54 Physics teachers | Mr. N. F. MefragataMr. R. Moreno |
| May24 | Science Seminar | Oscar Lopez Elem. SchoolCalauan, Laguna | IV | N.F.Mefragata Ent.DB Calauan, DepEd | 63 | Mr. N. F. MefragataMr. R. Moreno |
| May28 | Values Clarification Seminar | Don Bosco CalauanCalauan, Laguna | IV | N.F.Mefragata Ent.DB Calauan, DepEd | 42 | Mr. N. F. MefragataMr. R. Moreno |

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