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 cooperation  of  **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 Institute  Victoria 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 Institute  Victoria Milling Co.,  Victorias, Negros Occidental | VI |  | 47 | Fr. John Rauh, SDB  Mr. Nicolas Tan |
| **1959** |  |  |  |  |  |  |
| 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 |
| **1961** |  |  |  |  |  |  |
| Dec.  4-6 | Science Seminar Workshop for Secondary Teachers | Don Bosco Academy  Tarlac, Tarlac | III |  | 25 | Fr. George Schwarz, SDB |
| **1962** |  |  |  |  |  |  |
| July  9-14 | Workshop for Physics Teachers | St. Bridgitte College  Batangas, Batangas | NCR |  | 30 | Fr. George Schwarz, SDB  Mr. 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 | 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 |
| **1966** |  |  |  |  |  |  |
| Jan.  17-21 | Const. Workshop in Physical Science | Southern College  Pasay | NCR | BPS, NSD | 28 | Fr. George Schwarz, SDB |
| Feb.  1-4 | Const. Workshop in Physical 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 |

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| **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 |
| **1967** |  |  |  |  |  |  |
| 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  **3** |

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| **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 |
| **1970** |  |  |  |  |  |  |
| 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.  Recolletos (UNO-R)  Bacolod City | VI | Misereor | 50 | Fr. G. Schwarz, SDB  Mr. N. Mefragata  **4** |

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| **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 |
| **1971** |  |  |  |  |  |  |
| 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 |
| **1972** |  |  |  |  |  |  |
| 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  **5** |

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| **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** | *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 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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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| Nov. 4  Dec. 3 | Science Instrumentation Seminar Workshop | St. Peter’s College  Ormoc City | VIII | Misereor | 52 | Mr. N. Mefragata |
| **1977** |  |  |  |  |  |  |
| 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 |
| **1978** |  |  |  |  |  |  |
| 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 |
| **1979** |  |  |  |  |  |  |
| 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  **7** |

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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| 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 | 11th 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  **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 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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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **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 |

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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 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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| **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 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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| **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 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 |
| **1985** |  |  |  |  |  |  |
| 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 |
| **1986** |  |  |  |  |  |  |
| 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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| **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 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 |
| **1987** |  |  |  |  |  |  |
| 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 |
| **1988** |  |  |  |  |  |  |
| 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 |

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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 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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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| 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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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| 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 |
| **1990** |  |  |  |  |  |  |
| 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 |

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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 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 |
| **1991** |  |  |  |  |  |  |
| 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  **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 University  Muñoz, Nueva Ecija | III | Misereor, DECS  Diocese of San Jose | 32 | Mr. N. Mefragata |
| **1992** |  |  |  |  |  |  |
| Feb.  6-7 | SSIDCAA | Don Bosco School  Sta. Mesa, Manila | NCR | Misereor  Manila Association of Private Elem. Sch. Administrators | 61 |  |
| 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 |

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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 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 |

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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, 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 |
| **1994** |  |  |  |  |  |  |
| 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 |

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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 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 |

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| **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 |

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| **YEAR**  **DA TE** | **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  Bro. 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 |
| **1997** |  |  |  |  |  |  |
| 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 |

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| **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  Dr. P. Ababa |
| Feb.  12-14 | SSIDCAA | University of San Carlos  Cebu City | VII | Misereor, Don Bosco  CEAP, FAPE | 35 | Mr. N. Mefragata  Dr. 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 |
| **1999** |  |  |  |  |  |  |
| 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 |

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| **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, Germany  Don Bosco, Phil. | 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, Germany  Don Bosco, PAPSCU | 17 | Mr. N. Mefragata |
| Nov.  6 & 13 | SSIDCAA | Don Bosco School  Sta. Mesa, Manila | NCR | Misereor. Germany  Don Bosco, Phil. | 15 | Mr. N. Mefragata  Mr. Eugene Sinlao |
| Nov.  20, 27 & Dec. 4 | SSIDCAA | Don Bosco Academy  Mabalacat, Pampanga | III | Misereor, Germany  Don Bosco, Phil. | 22 | Mr. N. Mefragata  Mr. 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 Institute  Tarlac City | III | Misereor, Germany  Don Bosco, Phil. | 11 | Mr. N. Mefragata  Mr. Antonio delos Reyes |
| **2000** |  |  |  |  |  |  |
| Feb.  27-29 | SSIDCAA | Immaculate Conception College  Boac, Marindoque | IV | Misereor, Germany  Don Bosco, Phil. | 47 | Mr. N. Mefragata  Mr. D. Fantilanan |
| May 20 | SSIDCAA | Philippine Normal University  Taft, Manila | NCR | Misereor, Germany  Don Bosco, Phil. | 151 | Mr. N. Mefragata  Mr. J. Mefragata |
| **2001** |  |  |  |  |  |  |
| Jan. 6 | SSIDCAA | N. F. Mefragata Enterprises  Mandaluyong City | NCR | Don Bosco, Phil.  Gifted Learning Ctr. | 9 | Mr. N. Mefragata |
| Apr.  18-20 | SSIDCAA | Don Bosco Technical Institute  Victorias, Negros Occidental | VI | Don Bosco, Phil. | 37 | Mr. N. Mefragata |
| June  14-15 | SSIDCAA | Immaculate Conception  Catholic School  Sta. Cruz, Laguna | IV | Don Bosco, Phil. | 30 | Mr. N. Mefragata |
| Aug. 24 | SSIDCAA | St. Mary’s Academy  Baliuag, 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 Bosco  Phil. Foundation for Science and Technology | 58 | Mr. N. Mefragata |
| Sept.  27-29 | SSIDCAA | RVM Regional House  Matina, Davao City | XI | Don Bosco  N. F. Mefragata Ent. | 17 | Mr. N. Mefragata |
| **2003** |  |  |  |  |  |  |
| 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  **28** |

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| **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-DepEdaa | 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 |
| **2004** |  |  |  |  |  |  |
| Apr.  12-16 | 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. 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  **29** |

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| **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 |

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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 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 |
| **2005** |  |  |  |  |  |  |
| 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 |

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| **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 |

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| **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 |

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| **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 | Centenial 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 |

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| **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 |
| **2007** |  |  |  |  |  |  |
| 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  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 |

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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2007** |  |  |  |  |  |  |
| 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 |
| **2008** |  |  |  |  |  |  |
| Jan. 5 | Interactive Strategies  in the Teaching of Science Concepts | Cam. Sur Agricultural State Col.  Pili, Camarines Sur | V | Phil. Physics Society  N. F. Mefragata Ent. | 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 |

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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2008** |  |  |  |  |  |  |
| Apr.  2-5 | Interactive Strategies  in the Teaching of Science Concepts | Siguijor State College  Siquijor | VII | PPS-Siquijor  State University  N. F. Mefragata Ent. | 250 | Mr. N. F. Mefragata |
| May 7 | Interactive Strategies  in the Teaching of Science Concepts | Sta. Barbara District  Iloilo City | VI | Dept. of Elementary Education  Sta. Barbara District | 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 |
| Oct.  27-29 | Low Cost Science  Instrument Design | International Conference in Science and Math  UPNISMED | NCR | UPNISMED | 100+ | Mr. N. F. Mefragata |
| **2009** |  |  |  |  |  |  |
| 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  **37** |

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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2009** |  |  |  |  |  |  |
| 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 |
| 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,  N. F. Mefragata Ent. | 80 | Mr. N. F. Mefragata |
| **2010** |  |  |  |  |  |  |
| Jan.  20-22 | Science Instrument Design Construction Contest | Dagupan National School  Dagupan City | Region I | DepEd Region I | 50 | Mr. N. F. Mefragata |
| April  7-10 | Low Cost Science Instrument Design, Construction and Application | Xavier University  Cagayan de Oro City | X | Phil. Physics Society  N. F. Mefragata Ent. | 258 | Mr. N. F. Mefragata |
| April  12 | Low Cost Science Instrument use in the Secondary Level | Pagdugui National High School  Dumangas, 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** |  |  |  |  |  |  |
| April  13 | Low Cost Science Instrument use in the Secondary Level | Palanguia National High School  Pututan, Iloilo | VI | Parents Teachers Association (PTA)  N. F. Mefragata Ent. | 28 | Mr. N. F. Mefragata |
| April  17 | Climate Change | Kimberly Hotel  Pedro Gil, Manila | Inter-national | Department of National Defense  N.F.Mefragata Ent. | 22 | Mr. N. F. Mefragata |
| Oct.  15 | Interactive and  Integrative Teaching | San Pablo Colleges (H.S.)  San Pablo City | IV-A | N.F.Mefragata Ent. | 42 | Mr. N. F. Mefragata |
| Oct.  27 | Interactive and  Integrative Teaching | St. Ignatius de Loyola School  Taguig City | NCR | N.F.Mefragata Ent. | 17 | Mr. N. F. Mefragata |
| **2011** |  |  |  |  |  |  |
| Jan.  19 | Interactive and  Integrative Teaching | Real Elementary School  Urbiztondo, Pangasinan | I | DepEd and  N.F.Mefragata Ent. | 19 | Mr. N. F. Mefragata |
| Jan.  19-21 | Science Instrument  Improvisation and  Invention | Dagupan National High School  Dagupan City | I | DepEd and  N.F.Mefragata Ent. | 90 | Mr. N. F. Mefragata |
| Feb.  25 | Interactive and  Integrative Teaching | Phil. Foundation for Sci. & Tech.  Riverbanks, Marikina City | NCR | N.F.Mefragata Ent. | 78 | Mr. N. F. Mefragata |
| April  6-10 | Science Instrument  Design, construction  and Applications | Siliman University  Dumaguete City | VII | Phil. Physics Society  Siliman University and  N.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** |  |  |  |  |  |  |
| April  25 | Interactive and  Integrative Teaching | Munting Ilog National High School  Silang, Cavite | IV | N.F.Mefragata Ent.  Fil. Inventors Society | 26 | Mr. N. F. Mefragata |
| May  17 | Interactive and  Integrative Teaching | Phil. Science Centrum  Riverbanks, Marikina City | NCR | N.F.Mefragata Ent. | 19 | Mr. N. F. Mefragata |
| May  30 | Basic Electricity | Executive Lounge  DOST | NCR | N.F.Mefragata Ent. Filipino Inventors Society | 106  Inventors | Mr. N. F. Mefragata  Engr. Talion  Engr. Freires |
| June  3 | Ornamental Drawing  Electricity  Technical Drawing | 500 San Joaquin St. Mand. City  St. Ignatius of Loyola | NCR | N.F.Mefragata Ent.  St. Ignatius | 4 | Mr. N. F. Mefragata |
| **2012** |  |  |  |  |  |  |
| Jan.  6 | School Science Instruments | Daraitan National High School  Daraitan, Tanay Rizal | NCR | N.F.Mefragata Ent.  Filipino Investors Society | 17 | Mr. N. F. Mefragata  Mr. Modanza |
| Jan.  11 | School Science Instruments | Dalig National High School  Antipolo City | NCR | N.F.Mefragata Ent. | 28 | Mr. N. F. Mefragata |
| Feb.  8 | Creativity/Invention | ABE School of Business and Accountancy  Cubao, Quezon City | NCR | N.F.Mefragata Ent.  Fil. Inventors Society | 108 | Mr. N. F. Mefragata  Mr. Modanza |

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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2012** |  |  |  |  |  |  |
| April  13 | Creativity and Improvisation | RELC  Marikina | NCR | N.F.Mefragata Ent.  DepEd | 54 VocTec Principals | Mr. N. F. Mefragata |
| April | Science Topics | Xavier University  Cagayan de Oro City |  | N.F.Mefragata Ent.  PPS | 230 Physics teachers | Mr. N. F. Mefragata |
| May | Creativity/Invention | ABE School  Cubao, Quezon City | NCR | N.F.Mefragata Ent. | 64 students | Mr. N. F. Mefragata  Mr. Modanza |
| Sept.  11 | Creativity  Innovation & Invention | St. Rafael School  San Fernando, Pampanga | III | N.F.Mefragata Ent. | 49 | Mr. N. F. Mefragata  Mr. B. Modanza |
| Oct.  26 | Science Instrument Improvisation | District Office of DepEd  Mandaluyong City | NCR | N.F.Mefragata Ent. | 86 science teachers | Mr. N. F. Mefragata |
| **2013** |  |  |  |  |  |  |
| April | Physics Instrument Improvisation | Ateneo de Davao  Davao City |  | Phil. Physics Society  N.F.Mefragata Ent. | 300+ | Mr. N. F. Mefragata  Mr. Moreno |
| **2014** |  |  |  |  |  |  |
| April | Physics Demonstration | Maxino College  Dumaguete City |  | Phil. Physics Society  N.F.Mefragata Ent. | 300+ | Mr. N. F. Mefragata  Mr. R. Moreno |
| May | Instrumentation | LACA, Baliuag  Bulacan | 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 |
| July  24 | 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 Piñas  c/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 School  Agdangan Quezon | IV | N.F.Mefragata Ent. | 64 teachers and  4 principals | Mr. N. F. Mefragata  Mr. R. Moreno  Mr. R. Danque |
| Feb.  26-27 | Interactive Science  and Physics Teaching | Koronadal Comprehensive National High School  Koronadal, South Cotabato |  | N.F.Mefragata Ent. | 38 | Mr. N. F. Mefragata  Mr. 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. Mefragata  Mr. R. Moreno |
| May  14 | Interactive Science | Siena College of Taytay  Taytay Rizal | NCR | N.F.Mefragata Ent. | 17 | Mr. N. F. Mefragata  Mr. R. Moreno  **42** |

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| **YEAR**  **DATE** | **Seminar**  **Workshop** | **Venue/Address** | **Region** | **Cooperating Agency** | **No. of Teachers** | **Instructor/s** |
| **2015** |  |  |  |  |  |  |
| May  26 | Low Cost Science  SSIDCAA | R and O Academy  Villamor | NCR | N.F.Mefragata Ent. | 14 | Mr. N. F. Mefragata |
| Sept.  5 | Interactive and  Integrative Teaching | Bonifacio Javier Nat’l High School | NCR | N.F.Mefragata Ent. | 17 | Mr. N. F. Mefragata  Mr. R. Moreno |
| Nov.  9 | Interactive and  Integrative Teaching | Baptist Schools  Cavite City | IV | N.F.Mefragata Ent. | 13 teachers  62 students | Mr. N. F. Mefragata  Mr. R. Moreno  Pastor Noy Daculan |
| **2016** |  |  |  |  |  |  |
| Jan.  21-22 | Interactive and  Integrative Teaching | Pedro P. Cruz Elementary School  Barangka, Mandaluyong City | NCR | N.F.Mefragata Ent. | 88 | Mr. N. F. Mefragata |
| Feb.  22-23 | Creativity Innovation Invention | Phil Science Centrum  Marikina City | NCR | N. F. Mefragata Ent.  PFST | 15 | Mr. N. F. Mefragata |
| Apr.  6-9 | Physics Instrument Design & Construction | Mindanao Central University  Musuan, Maramag, Bukidnon | 10 | N. F. Mefragata Ent.  Phil Physics Society | 317 | Mr. N. F. Mefragata  Mr. R. Moreno |
| Apr.  13-16 | Science interactive Teaching | Calaca Power Plant  Batangas City | I | N. F. Mefragata Ent.  Phil Foundation for Science and Tech. | 37 | Mr. N. F. Mefragata  Mr. R. Moreno n m |
| May | Creativity and  Technical Drawing | Science Centrum  Marikina 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** |  |  |  |  |  |  |
| June  6-7 | Interactive Science Teaching | Batino Elementary School  Batino, Quezon City | NCR | Rotary Club of Quezon City | 37 | Mr. N. F. Mefragata  Mr. R. Moreno  Mr. R. Moya  Mr. R. Bautista |
| Dec.  20 | Values Clarification Seminar | AIM  Makati City | NCR | JVR Foundation  N.F.Mefragata Ent. | 38 | Mr. N. F. Mefragata |
| Dec.  27 | Values Clarification Seminar | IWS  Tarlac City | NCR | JVR Foundation  N.F.Mefragata Ent. | 40 | Mr. N. F. Mefragata |
| **2017** |  |  |  |  |  |  |
| Feb.  20 | Values Education | Philippine Science Centrum  Marikina City | NCR | N.F.Mefragata Ent. | 20 | Mr. N. F. Mefragata |
| Apr.  19-22 | Science interactive Teaching | Calaca Power Plant  Calaca, 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. Mefragata  Mr. R. Moreno |
| May  24 | Science Seminar | Oscar Lopez Elem. School  Calauan, Laguna | IV | N.F.Mefragata Ent.  DB Calauan, DepEd | 63 | Mr. N. F. Mefragata  Mr. R. Moreno |
| May  28 | Values Clarification Seminar | Don Bosco Calauan  Calauan, Laguna | IV | N.F.Mefragata Ent.  DB Calauan, DepEd | 42 | Mr. N. F. Mefragata  Mr. R. Moreno |

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|  | **ABAP**  **BPS**  **CAR**  **CEAP**  **CLSU**  **DB CRT**  **DECS**  **DOST**  **EMCOR**  **FAPE**  **IWS**  **JVR**  **LSC**  **Misereor**  **MSU**  **NEAP**  **NDEA**  **NSDB**  **NSTA**  **NTC**  **PAPI**  **PAPSCU**  **PAPT**  **PFST**  **PPS**  **RSTC**  **SCAAP**  **SEPNAS**  **SGNHS**  **SMEI**  **SSIDCAA** | **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=**  **=** | *Association of Booksellers for the Academe and the Professions*  *Bureau of Private Schools (Now the DECS)*  *Cordillera Autonomous Region*  *Catholic Educational Association of the Philippines*  *Central Luzon State University*  *Don Bosco Center of Research and Training*  *Department of Education, Culture and Sports*  *Department of Science and Technology*  *Engineering and Machineries Corporation*  *Funds for Assistance to Private Education*  *International Wiring System*  *Jesus V. Del Rosario Foundation*  *Luzon Science Consortium*  *Zantralstelle Fur Entwiclunghilfe (a funding agency based in Germany)*  *Mindanao State University*  *National Educators Academy of the Philippines*  *Notre Dame Educational Association*  *National Science Development Board – it is now DOST*  *National Science and Technology Authority – it is now DOST*  *National Teachers College*  *Philippine Association of Physics Instructors (College Teachers and Professors)*  *Philippine Association of Private Schools, Colleges and Universities*  *Philippine Association of Physics Teachers (High School Physics Teachers)*  *Philippine Foundation for Science and Technology*  *Philippine Physics Society*  *Regional Science Teaching Center*  *Science Club Adviser Association of the Philippines*  *Speaker Eugenio Perez National Agricultural School*  *San Guillermo National High School*  *Science and Mathematics Education Institute of the University of San Carlos, Cebu City*  *Schools Science Instrument Design Construction and Application*  **45** |

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|  | **STEAP**  **TRC**  **UP**  **UPISMED**  **USC**  **ZABAPS** | **=**  **=**  **=**  **=**  **=**  **=** | *Science and Technology Educators Association of the Philippines*  *Technology Resource Center*  *University of the Philippines*  *University of the Philippines – Institute of Science and Mathematics Education*  *University of San Carlos, Cebu City*  *Zamboanga-Basilan Association of Private Schools* |

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