IEEE North Jersey Section Seminar
Object-Oriented C++ Programming

September 13, 1994
Jersey Central Power & Light Co., 300 Madison Avenue, Morristown, N.J.

This seminar will address object-oriented design and programming. The course will cover both the concepts of OOP and their implementation in C++. There will be a review of common aspects of C and C++ but this time will be too brief to cover C. THEREFORE ONLY THOSE WHO ARE FAMILIAR WITH C SHOULD REGISTER FOR THE C++ COURSE.

There will be 9 weekly lectures and homework will be assigned and corrected. The topics listed below will be covered. The instructor is Dr. Edward (Ted) Byrne, owner of a software consultant business.

1. - Review common elements of C and C++: punctuation and keywords, variable naming, typing and scope, function and subfunctions, arguments, operators and assignments, conditions and logical variables, looping and testing, handling key stings, arrays and subroutines, pointers.
2. - Concept of Object-Oriented: classes and objects of methods and messages, encapsulation and abstraction, loading of functions and operators, inheritance and polymorphism.
3. - C++ improvements to C: new commands and operators, comments, stream I/O, function prototypes, more explicit typing and linking.
4. - C++ implementation of objects: what is a C++ object, data and methods functions within an object, public, private and friend, static and dynamic objects, constructors and destructors.
5. - Encapsulation and abstraction within C++ objects: references and aliases, scope control operator, ‘this’ variable, object, overloading, functions, operators.
6. - Inheritance and polymorphism among C++ objects: parent class or object, extending classes, redefining object data and methods, multiple inheritance, templates.
7. - C++ I/O streams, standard formatted I/O with manipulators, disk and device I/O.
8. - C++ library classes and their use: characteristics of a good library class, conversion classes, video宽敞 classes, window base classes, database base classes.
9. - Overall program structure with C++ objects: how to lay out a C++ program, how to reuse classes in a program, how to test and evolve a C++ program, how to find errors and debug C++ program objects.

Object-Oriented design methodologies: booch method, coad/yucon method, nieder method.

Class size will be limited to a maximum of 20 with a minimum registration of 15. Early registration is recommended. Phone reservations will NOT be accepted. Reservations accepted after September 9, 1994 will require an additional late fee of $25. No reservations will be accepted after September 12, 1994.

Where: Jersey Central Power & Light Co., 300 Madison Avenue, Morristown, N.J.
When: Nine sessions, Tuesday evenings starting September 13 through November 21, 1994, 6:30 PM to 9:00 PM.
Text Books: 1) Borland Turbo C++; 2) IEEE Members $200; Non-IEEE Members $280.
Contact: Mr. John A. Baka at (201) 455-8354 (Business).

Registration

Name:
IEEE No.:
Affiliation:
Address:

Checking Box:

Check if Borland Turbo C++ Compiler is needed or not
Yes [ ] No [ ]

Please enclose required fee payable to North Jersey Section IEEE.

Signature:

IEEE North Jersey Section Seminar
Object-Oriented C++ Programming

Tuesday, September 13 - November 21, 1994
Jersey Central Power & Light Co., 300 Madison Avenue, Morristown, N.J.

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Yes [ ] No [ ]

Please enclose required fee payable to North Jersey Section IEEE.

Signature:
North Jersey Section Activities

AUGUST 1994

Aug. 3—“North Jersey Section Executive Committee Meeting”—7:00 PM, Plant 11, GEC-Marecon, 164 Totowa Rd., Totowa, N.J. Mel Lewis (914) 968-2500, Ext. 2304.

Aug. 11—“Section Two: Start And Manage Your Own Business”—North Jersey Section PACE, 7:30 PM, JC&P&Co., 300 Madison Ave. & Punch Bowl Road, Morristown, N.J. Robert Sinusas (201) 228-2942.

Aug. 16—“Wireless Personal Communications and Intelligent Vehicular Highway Systems”–North Jersey Vehicular Technology Society, 7:30 PM. For location contact Mel Lewis (914) 968-2500, Ext. 2304.

Aug. 18—“Reliability-Centered Maintenance”–North Jersey Section PIES/IAS, 7:00 PM, JC&P&Co., 300 Madison Ave., Morristown, N.J. Ken Osele (201) 455-8841.

Upcoming Meetings

Sept. 7—“North Jersey Section Executive Committee Meeting”—7:00 PM, Plant 11, GEC-Marecon, 164 Totowa Rd., Totowa, N.J. Mel Lewis (914) 968-2500, Ext. 2304.


Sept. 13- Nov. 21—“Seminar: Object-Oriented C++ Programming”—North Jersey Section, Tuesday Evenings, 6:30-9:00 PM, JC&P&Co., 300 Madison Ave., Morristown, John A. Baka (201) 455-8534.

Sept. 14- Nov. 15—“Introductory C Programming”—North Jersey Section, Wednesday Evenings, 6:30-9:00 PM, JC&P&Co., 300 Madison Ave., Morristown, John A. Baka (201) 455-8534.


Sept. 22—“Seminar: An Overview Of Multimedia Technologies And Services”—IEEE NJ Section Computer Section Chapter, 8:30 AM-3:00 PM, Ocean Place Hilton, Long Branch, N.J. K. Raghavanandhan (908) 785-2070.

Oct. 2—“North Jersey Section Executive Committee Meeting”—7:00 PM, Plant 11, GEC-Marecon, 184 Totowa Rd., Totowa, N.J. Mel Lewis (914) 968-2500, Ext. 2304.

Oct. 5—“Videoconference: ISO 9000: A Critical Review Of The 1994 Revisions”—North Jersey Section, 12 Noon-3:00 PM, IEEE Service Center, 444 Hoes Lane, Fiscataway, N.J. Carolyn Yanoski (908) 562-5433 or c.yanoskii@ieee.org See P alle schedule listed in this newsletter.

Oct. 13—“The U.S. And Competitiveness”–North Jersey Section PACE, 7:30 PM, JC&P&Co., 300 Madison Ave. & Punch Bowl Road, Morristown, N.J. Robert Sinusas (201) 228-2942.


Professional Activities Committees for Engineers Board Entity Name

By Richard F. Tax

(The following is an IEEE United States Committee Board of Engineers Statement Paper)

Alternative Certification Of Engineers As Precollege Science And Mathematics Teachers

This statement was developed by the Precollege Education Committee of the United States Committee of Engineers (USAB) of The Institute of Electrical and Electronics Engineers, Inc. (IEEE), and represents the considered judgment of a group of U.S. IEEE members with expertise in the subject field. The IEEE USAB promotes the career and technical education and training of approximately 1,000,000 electrical, electronics, and computer engineers who are U.S. members of the IEEE.

It is our position that most states make it burdensome financially and in terms of self-esteem for professionals without formal pedagogical training to become certified as engineers. Teachers with years of training in mathematics, science, and engineering and practical knowledge of their applications on the job are excellent candidates for the teaching profession. The pool of candidates who wish to make a career change because of early retirement, because they want to make a contribution to technological literacy, or because simply they want to teach, is sizable. They may require training in teaching techniques and are well equipped in technical knowledge and practical engineering experience.

In support of this position:

we encourage state legislatures and departments of education to adopt alternative credentialing programs that will enable electrical and electronics engineers to enter the teaching profession with a minimum of retraining and financial burden during the transition. While we acknowledge that a certain amount of training in pedagogy and child development is necessary, we submit that it can be obtained in an efficient, relatively unobtrusive and non-intrusive manner, such as an intensive short course followed by mentoring, team teaching, or periodic reinforcement courses, permitting the individual to continue earning at a level commensurate with their technical training and experience and at a wage comparable to that of teachers at a similar stage in their lifelong careers;

we recommend that state legislatures and departments of education consider hiring electrical and electronics engineers as advisors or resources for math and science teachers at the state, district, or school level, to incorporate engineering ideas and concepts into the teaching of mathematics, science, and technology; and

we encourage IEEE U.S. members to volunteer their services as resource persons supporting teachers and school districts in states that have initiated a program to improve the math, science, and technology curriculum.

EDITORIAL

Shortage Alarms Ring Hollow—Again

In my July 9 Editorial, "Engineers as Educators," I suggested that out-of-work and early-retired engineers might be effective science and math teachers in our public schools, an area that seemed to exhibit a shortage of such talent. This Editorial激发了 a number of interesting responses from our readers.

First, a comment in a letter from Allen W. Wollschale, Columbus, Ind. He wrote: “It is highly misleading to say that there is the same truth to the teacher shortage as there is to the "(electrical/electronic) engineer shortage," namely—hongway.—Could he be right? All of us know about the shortage of engineers in the engineering shortage that continues to plague engineers. Could these same baseless alarms of a shortage of engineers be happening again in the teaching profession?

Another reader takes a further light on the situation. I received a telephone call from Richard F. Tax, who was a member of the Management Committee of the IEEE U.S. Activities Board in 1990. Tax, who at that time was vice president of the grass-roots American Engineering Association described in some of our previous Editorials, reported that the Markman Committee speculated on the possibility of engineers moving into teaching to relieve what appeared to be a shortage of science and math teachers. They performed a mail survey of the Department of Education in the contiguous states with the District of Columbia, and turned up some surprising results.

Members and Non-Members Welcome To Post

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Page 3NZ - August, 1994 - "The IEEE Newsletter"
**Introductory C Programming**

The North Jersey Section of IEEE is offering an evening course entitled “Introductory C Programming.” C is one of the most widely used computer programming languages because it is powerful, portable and permissive. It is also the basis for C++, the popular object-oriented programming language. This course will be an introduction to C and will cover all the basics of the language as well as emphasizing C’s philosophy or world view.

The course will cover ANSI C on the PC but, because there are C compilers for most computers, the expertise will be applicable from PC through mainframe. The C techniques learned will be useful on their own, and also will be a preparation for either an advanced course or a C++ course.

There will be weekly lectures and each will be followed by a short optional work session. Homework will be assigned and corrected. The topics listed below will be covered. The instructor is Dr. Edward (Ted) Byrne, owner of a local software consultant business.

1. Background of computers, operating systems, compilers and high-level languages.
2. Introduction to C and the parts of a real C program: philosophy of C vs other languages, ANSI vs older C, return and continue of a simple C program, C program examples ( ongoing).
3. Reserved words, variables, declaration and definition, parameters, permanent, temporary, local and global variables.
4. Branching: simple and compound statements, relational operators and expressions and their use in branching, various kind of branch statements.
5. Loops and Conditions: various ways to enter and exit a loop, auto-incrementing and statement labels, gets.
6. Formatted and character I/O: output to screen, input from keyboard, formatting, I/O and device input and output.
7. Defensive programming and debugging: debugging levels, asserts, lint, case tools.
8. Functions, subroutines and arguments: names, arguments, return value, main program arguments, exit, return levels.
9. Variable data type, string data type, characteristics of strings, libraries, and header files, include statement, common functions, getline.
10. Groups of similar and dissimilar data items: arrays, structures, indexing, items.
11. Input-Output: concept of a process, terminal, pointer arithmetic, indirect.
12. Introduction to some advanced topics in C: graphics on unions, enumerans, etc., typedef, char vs integer variables and operators, switch statement and case and default, conditional assignment.

Class Size will be limited to a maximum of 20 with a minimum of 15. Early registration is recommended. Phone Reservations will not be accepted. Reservations after September 15 will require an additional late fee of $25. No reservations will be accepted after September 12, 1994.

**Place:**
Jersey Central Power & Light Co., 300 Madison Avenue, Morristown, N.J.

**Time:**
Wednesday evenings, starting September 14th thru November 15, 1994 from 6:30 PM to 9:00 PM.

**Cost:**

Contact:
Mr. John A. Baka at (201) 455-8534 (Business)

**Registration “Introductory C Programming”**

Please enclose required fee made payable to North Jersey Section IEEE.

**Note:** Quick Compiler is needed or not Yes [ ] No [x]

**Signature**

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**Questions:**

1. What is the main focus of the course “Introductory C Programming”?
   - The main focus is to cover all the basics of the C language, emphasizing C’s philosophy and world view. It will also prepare participants for advanced courses or C++ courses.

2. Who will be the instructor for the course?
   - Dr. Edward (Ted) Byrne, owner of a local software consultant business, will be the instructor.

3. When and where is the course held?
   - The course is held on Wednesday evenings, starting September 14th through November 15, 1994, at Jersey Central Power & Light Co., 300 Madison Avenue, Morristown, N.J. from 6:30 PM to 9:00 PM.

4. What are the requirements for attending the course?
   - Early registration is recommended, and phone reservations are not accepted. Reservations after September 15 will require an additional $25 late fee. No reservations will be accepted after September 12, 1994.

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**IEEE North Jersey Section CME Seminar**

**US and Competitiveness**

At the October 13, 1994 meeting of the North Jersey Section’s Professional Activities Committee, the topic will be “US and Competitiveness.” The speaker will be Edward J. Doyle.

**About the Talk**

For the last decade plus, the United States has become increasingly less competitive in the global market, currently running trade deficits over $100 billion annually. Some of the confusion comes from the view of the American consumer: we are not sure where we are going, but the world is; we are not sure where we are going, but the world is.

Our negative balance of trade slowly but surely leads to a devolution of the dollar since our competitors pile up dollars which are of little use to them. It leads to a decreasing standard of living and loss of jobs, mainly good jobs in manufacturing, for which those products we do not make. It is particularly hard on engineering graduates and professionals. Too much of the lack of trade is in such technical areas as automobiles and consumer electronic products. The government’s trade problems have barely kept up with inflation.

The speaker will talk about what needs to be done to correct this problem.

**About the Speaker**

Mr. Doyle spent his engineering career with AT&T and a number of Bell companies, retiring from New Jersey Bell in 1989. In the 1980s he managed telephone services for Presidents Kennedy and Johnson. He has been active in professional organizations and IEEE and before it. He was a founder of the IEEE Communications Society and its first Director of Operations. He has been active in USACOM on many committees and was named a Visiting Professor in 1992. He founded the USACOM at the USACOM and chaired it for three years.

**Time:**
Thursday, October 13, 1994

**Place:**
JCP&L Co., 300 Madison Avenue and Punch Bowl Bowl, Morristown, N.J.

**Registration:**

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**IEEE VIDEOPROFESSIONALS SEMINARS VIA SATELLITE**

**North Jersey Section Videoconference Calendar**

The Fall schedule for videoconferencing offered by the IEEE Education Department is as follows:

**October 5**

**ISO 9000: A Critical Review of the 1994 Revisions.**


An overview of the changes from the 1987 edition of the ISO 9001 standard (the most complete standard), demonstrates how the software tools can be effectively used to facilitate the documentation tasks, and provide an overview of the registration process.

**September 19**

**Maximizing Productivity: Information Retrieval.**

Lead Presenter: Geo Wiederhold, DARPA/SITO.

Today’s complex computing environments integrations vast on-line databases, document bases, knowledge bases and application software. What information the need for more powerful and responsive tools for locating and retrieving the right information at the right moment, the need for effort. Relevant technologies include categorization of the full-text document retrieval, statistical analysis and multimedia user interfaces. The videoconference will address issues of technology selection, integration and interface.

**November 9**

**Mechatronics.**

Lead Presenter: Kevin C. Craig, Rensselaer Polytechnic Institute.

This program will discuss mechatronic systems design and the role of the following: physical and mathematical modeling of dynamic systems, control systems, sensors, analog and digital control sensors and actuators, electronics, neural-net work and fuzzy-logic control, analog, digital and hybrid mechatronic systems, magnetic bearings, mechatronic materials, and smart materials. Benefits will be shown shorter development times, lower costs, increased speed, reliability and performance can be realized through mechatronics. Offered in cooperation with ASME.

**November 30**

**Maximizing Productivity: Multimedia.**

Lead Presenter: Matt M. Perez, Director, Integrated Media Platform, SunSoft, div. of Sun Microsystems.

The entire range of multimedia technologies that is available in equipment should improve the way we work and live. This year’s conference will explore the multimedia technologies available to engineers and the trends for the future. You will see and hear the latest uses of multimedia on and off campus, in our virtual reality, now emerging as a tool for engineers.

**December 7**

**Maximizing Productivity: Redesigning the Engineer & Designing for Maintainability.**

Lead Presenter: William H. Long, Jr., Texas A&M University.

How does a design engineer maximize the savings? What and looking at new design technologies and new built-in test systems without creating such a complex systems that product reliability becomes impossible? This program will deal with many of the add-on design constraints, ultimately maximizing product reliability and maintainability. This program will help engineers to involve and benefit from the knowledge of other areas.

**Reliability-Centered Maintenance may be the answer!**

Learn about RCM at the August IAS and PES Chapters Meeting.

**Additional Information:**

- **Date:** Thursday, August 16, 1994
- **Time:** 7:00 P.M.
- **Place:** Jersey Central Power & Light Co., 300 Madison Ave., Morristown, NJ

**Speaker:** Dick McFadden, IEEE Fellow, Chief Engineer, Applied Sciences Corporation, New York, a specialist in RCM and reliability-availability-maintainability engineering for industrial and utility power systems.

A complimentary buffet will be served.

**For pre-registration (fee required):**

- **Call:** Ken Oeste, JCP&L, (201) 455-8813
- **Vitali Ficallapetra, Raytheon ECC, (201) 884-4500
- **Dick McFadden, SAIC, (212) 764-2920**
Multimedia is an emerging and exciting field that requires integration of telecommunication, audio/video technologies, computing hardware and software, and information services. This seminar discusses the concepts of multimedia, why multimedia is becoming a key technology, what are the key applications, and the need for various multimedia components-technologies like compression, storage, hardware/software, etc. An overview of architectural requirements for supporting multimedia will be discussed. New networking technologies such as ATM, wireless LANs, and optical networks used in multimedia systems will be described. The course concludes with a look at future prospects, challenges and multimedia's potential on home entertainment, world environment, communication and computing in the 90s.


Lunchen Speaker: Dr.Sid Abajaj, Head, Multimedia communications department, AT&T Bell Labs

DATE: Sept. 22, 1994 TIME: 8:30 am-3pm
LOCATION: Ocean Place Hilton, Long Branch, N.J.
REGISTRATION: $195 (non-Mem.), $175 (Mem.) and $125 (students), includes coffee, pastries and lunch.

For Information call/contact:
K. Raghavan, 908-577-4202.
Fax: 908-577-4537 email: raghav@njdt.att.com
N. Natrajan, 908-758-2078 Fax: 908-577-4268
email: nan@cc.bellcore.com
Bala Prasanna, Room 1A-310, AT&T Bell Labs 480, Red Hill Road, NJ 17748 Tel: 908-615-4486
Fax: 908-615-4677, email: joypras@corona.att.com

Early bird registration June 15, 1994 (SAVE 50)
Registration deadline: July 15, 1994

The IEEE Bulletin Board

The IEEE Bulletin Board has been on the air for over 600 days by the time this article is written and we are privileged to have two major services to the membership. When reading this newsletter, you may see an article from time to time that has gone to press without the time or place where the mailing is to be held, maybe because of a problem in getting the information to the editor in time to meet publication deadlines. If this happens and the meeting coordinator calls with the information, it will be posted on the BBS in the appropriate category. Message areas have been set up for each chapter and information about your Chapter's activities may be listed. Look for information there if the Chapter Chairman has a PC in a modem.

There will also be a message area where comments may be left for the IEEE Section or Executive Committee, along with a message area set up called "Ask the Section Executive Committee." If you have some idea about what you think the IEEE should be doing, this is the forum. If you want to send email direct to someone in the committee and do not know their Log On, you can find a busy box that points person's name to the list of users. If he/she is not on the list, send the email to the person you want to reach in care of Dave Perry at the BBS number listed in the Newsletter masthead and the information will be passed on. This procedure is more reliable than playing telephone tag.

There is another major change in the information of a Job Bank and Skill Bank. If your company has an opening and if you are a user of this BBS, you are welcome to mail the information to Dave Perry at the address listed below and it will be posted in the Job Bank. They are looking for a job hunter and would like to see what happens we will gladly post your stuff at the Skill Bank.

The Job Bank messages will be read only by job hunters. Employers will not have access to the Skill Bank as some employers may not wish their competitors to learn of their employment strategies. Job hunters will not have access to the Skill Bank as we feel that you may wish to make this information available to prospective employers only. In your job listings does not provide these security features.

The Job Bank and Skill Bank will be carried on JBSNet, a network being established especially for the Service Executive Committee and employers looking for people. Access to JBSNet information is available at no cost to individuals. BBS users who want to be included should contact us at the address below. Provide an email address to be contacted via email.

Users who log on may also interface with Internet and PINet. The BBS Bulletin Board area provides instructions on how to do this. BBS is new and may be overwhelmed. Users who wish to be included in this section of BBS should contact us at the address below. BBS will not be overused. New users sometimes feel that the BBS is not user friendly. For a written introduction on how the BBS and JBSNet work, send a stamped self-addressed envelope. The Program is managed by Dave Perry, United States, 57 Forest Hilt Rd., Basking Ridge, NJ 07920 or call me at (201) 325-3769.

Employment Transitions

At the September 8, 1994 meeting of the North Jersey Section's Professional Activities Committee for Engineers, the topic will be "Employment Transitions: Making Financial Decisions As You Leave Your Job." The speaker will be Edward Landau.

About The Talk

In dealing with separation from your most recent employer, there are a number of decisions on the horizon. This talk will offer help in managing your finances more effectively and advice on how to readjust financial expectations to accommodate your current situation. While some doors may be closed, new opportunities may have opened up in exciting areas. This type of change can often turn into a very positive experience.

Participants will be given workbooks to help them review their own financial situations. There will be a question and answer period at the end of the discussion.

About The Speaker

Edward Landau is a Personal Financial Planner with American Express Service Corporation. As a financial planner, he is licensed by the National Association of Securities Dealers in addition to holding New Jersey and Securities Commission licenses. Before becoming a financial planner, Mr. Landau spent over twenty years as an RF Design Engineer, Consultant and Engineering Manager.

Time: 7:30 PM, Thursday, September 8, 1994.
Place: JCP&L Co., 300 Madison Avenue and Punch Bowl Road, Morristown, NJ Information: Robert Siusas (201) 228-3941.