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Editor M. M. Perugini
Managing Editor B. Blair
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It is not necessary to inform the North Jersey Section when you change your mailing address. The NEWSLETTER and other section mailings use a list provided by IEEE's national headquarters in New York. This means the Section has no need to maintain a mailing list or addressing plates. Section membership records are changed when Headquarters notifies us.

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Control Theory And Market Analysis

The conventional method of modeling economical systems is through the well known time invariant (static) supply and demand functions. However, in recent years, the dynamic behavior of the market has attracted the attention of economists and econometricians. Control theory provides suitable tools for the analysis of the dynamic market.

A linear dynamic model is chosen to obtain the optimum pricing policy of a firm that maximizes its revenue or profit for a given planning period. The results are compared with the optimum pricing policy of the static market. Cases in which the choice of the dynamic model results in a significantly different optimum price from the one of the static model are discussed. The application of this type of modeling in other economics problems such as "optimum investment policy" is also discussed.

The speaker, Dr. Aminzadeh is associated with Bell Laboratories, Murray-Hill, N.J. as a member of the technical staff in the Service Economics Department.

Dr. Aminzadeh will present his lecture at 8 PM on Thursday, September 11, 1980 at Bell Laboratories, 600 Mountain Ave., Murray-Hill, N.J. This meeting is open to everyone who is interested. For further information please contact John F. Van Savage, Chairman, Control Systems Society, 328-4667 or Fred Aminzadeh, Vice Chairman, Control Systems Society, 582-7242 (to obtain details of lecture).

A pre-meeting dinner at 6:15 PM will be held at the MARCO POLO, 527

Morris Ave., Summit, N.J. Those wishing to meet the speaker socialize with the attendees are cordially welcome. Please contact Fred Aminzadeh so that he can make reservations.

Time: 8 PM, Thursday, September 11, 1980.

Place: Bell Laboratories, 600 Mountain Ave., Murray Hill, N.J.

Pre-Meeting Dinner: 6:15 PM, Call 582-7242 for reservations.

Tour of PSE & G Laboratories Slated

The Power Engineering Society Chapter of the North Jersey Section will hold an Inspection Tour of P.S.E. & G. Research and Testing Laboratory, 200 Boyden Avenue, Maplewood, N. J. at 7:30 PM, Wednesday, September 24, 1980.

Environmental radiological monitoring, acoustic emissions, plant energy audits, metallurgy and special investigations are carried out daily at the P.S.E. & G. Research and Testing Laboratory.

PES and IEEE members and guests are invited to a brief slide presentation, to be followed by a tour of the individual areas conducted by laboratory personnel.

There is ample parking at the location. Refreshments will be served following the program.

Advance Telephone Registration is required. Please call for advance registration or additional information: John Baka - Chairman - JCP&L - 455-8534; Gene Opdyke - Vice Chairman - McGraw-Edison - 688-1300; or William Ruffle - Program Chairman - PSE&G - 353-7000 Ext. 544.

PAC Meet To Cover National Conference

The September 17th Professional Activities Committee meeting is scheduled to discuss the National PAC Conference. This year the National PAC Conference is to be held in Denver, Colorado on September 5, 6, 7.

Richard Tax, North Jersey PAC Chairman, and Mike Perugini, Newsletter Editor, will report on the activities of this event.

Subjects scheduled for the Conference are:

- Working with State Legislators
- Interacting With Your Congressman and Senators.
- Local PAC Projects
- IEEE Position Papers
- Task Force Reports
- Your USAB Budget

This meeting is open and informal. Please accept our invitation to participate. This is a good opportunity to learn more about PAC activities on the local and national level.

Refreshments will be served.

Time: 7:30 PM, Wednesday, September 17, 1980.

Place: ITT Conference Center, 500 Washington Ave., Nutley, N. J.

Pre-Meeting Dinner: 6:00 PM, Jade Fountain, River Road, Clifton, N. J.

Call: Meyer Rosenthal, (201) 731-4812 for further information and dinner reservations.

Computer Prediction Of Coronary Artery Disease

The Metropolitan New York Chapter of EMBS will hold a October 1, 1980 meeting on "Computer Prediction of Coronary Artery Disease from Apparently Normal Electrocardiograms." Prof. Joseph R. Lundy, The Cooper Union School of Engineering will be the speaker.

Time: 7:30 PM, Wednesday, October 1, 1980.

Place: Rockefeller University, Bronx Laboratory, Room 216, 66th Street and York Avenue, NYC.

Pre-Meeting Dinner: 6:00 PM, Tower Cafeteria, 64th Street and York Avenue, NYC.

Further Information: Israel Max, (516) 333-8000.

ENGINEERS IN TRANSITION TO MANAGEMENT

A one day tutorial sponsored by
New York/North Jersey Chapter
Engineering Management Society

PURPOSE:

To provide meaningful guidance in developing the mental attitude and management disciplines required for the successful transition from doing the technical work to supervising it.

OF INTEREST TO:

- New managers • Potential managers • Experienced managers desiring a review
- Executives who interact with engineers and engineering managers

TOPICS COVERED:

"Management: A State of Mind" — "Personal Management by Objectives (MBO)" — "Group Dynamic Exercises" — "Politics of the Large Organization" — "Self-Assessment of Performance"

CONDUCTED BY:

Dr. Irwin Gray, President of Envort-Gray Corporation.

Dr. Gray, author of the book *Engineer in Transition to Management*, is also a member of the business management faculty of New York Institute of Technology in Old Westbury, Long Island.

Mr. Herb Grossman, Vice President of Personnel for the Zale Corporation. Mr. Grossman, who has twenty years experience as an executive in the field of personnel, is also former President of New York City Metro Chapter of American Society of Personnel Administrators (ASPA).

Mr. Paul Selbst, Chairman of Health Administration Programs for Columbia University, was Executive Director of a major health facility for many years. Mr. Selbst is also an experienced management consultant and instructor for Senior Management Training Programs.

Date: Wednesday, November 12, 1980, 9:00 AM - 5:00 PM.

Location: Engineering Building, Room 125, 345 East 47th Street, New York, New York 10017.

Fee: \$75.00 Advance Registration (prior to Nov. 1)

\$80.00 After November 1, 1980 (Fee includes text, lunch and coffee breaks)

Additional Information: Betty Jensen (201) 430-6633, Thomas Morrison (212) 575-1400, Harry Stokes (914) 686-3077.

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October 6-8, 1980
NEW YORK



Taught by:
Kenneth Thurber

Learn Local Network Architectures

How can you create your own local DP network using existing, diverse equipment? Which commercially available local interconnect systems can you use? Learn about the trade-offs. Learn about cost-effective high-performance bus structures. Dr. Thurber is a well known contributor to the fields of bus structures and distributed processor interconnections. Send today for full seminar information.

December 1-3, 1980
SAN FRANCISCO



Taught by:
Pouzin Sunshine

Learn Network Protocols

What are the rules of the game? Computers can't communicate without protocols. Understand the protocol issues involved in computer design, transmission media, and a multitude of applications. Louis Pouzin is a well known speaker and writer with a superb ability to present complex subjects in simple language. Carl Sunshine is known internationally as an expert on computer network protocols. Send today for full seminar information.

October 20-22, 1980
NEW YORK



Taught by:
Leonard Kleinrock

Learn Computer Networks

Learn the real *magic* of DP networks. Get up to speed in DP networks *fast*. This seminar teaches users, managers and analysts the best ways to implement, evaluate and optimize the network concept. Learn measurement and design. Learn resource sharing concepts and flow control. Dr. Kleinrock, recognized world authority on computer networks, will give you the very latest on computer networks. Send today for full seminar information.

November 18-20, 1980
BOSTON



Taught by:
Wushow Chou

Learn Planning Data Networks

Is your network cost-effective? How can you prepare for changes? What is your strategy for future demands? Learn the techniques for network planning. Dr. Chou has created many techniques for optimizing, simulating and analyzing data communications systems. Dr. Chou is Professor of Computer Science/Electrical Engineering at North Carolina State University. Send today for full seminar information.

December 3-5, 1980
SAN DIEGO



Taught by:
Kleinrock Chou Roberts

Learn from Experts on Networks

Leading network innovators give an overview of the network concept. Learn the latest techniques for utilization and management. Learn through actual case studies in network planning. Dr. Leonard Kleinrock is a recognized world authority on computer networks. Dr. Wushow Chou is a leader in network optimization and evaluation. Dr. Lawrence Roberts developed the first operational packet-switching network. Send today for full seminar information.

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Recent Developments In Professional Engineering

A discussion of the latest events in the National Society of Professional Engineers and recent changes in laws that affect the practice of engineering will be presented by: John W. Gregorits, P.E. at a joint meeting of the Morris Sussex Subsection-ASME and the NJ IEEE Power Engineering Society.

The meeting is a must for PEs and EITs. Engineers not licensed will want to know how they will be affected. Others who are concerned about the impact of technology on society will be interested.

THE SPEAKER John Gregorits is already known to many members for his fine review course on the preparation for Professional Engineering Examinations that is offered through the North Jersey Section, American Society of Mechanical Engineers.

John holds BSME and MSME degrees from the New Jersey Institute of Technology. He has worked as a designer and project engineer, and he has taught Engineering and PE Review courses at NJIT and Rutgers University. He is a past president of the New Jersey Society of Professional Engineers. In 1979 he was named "Engineer of the Year" by the Essex County Professional Engineering Society. He is listed in "Who's Who in Engineering" and "Who's Who in Government;" is presently vice chairman of the Northeastern Region of the NJSPE, chief engineer of the System Development and Modeling Division of the U. S. Army Research and Development Command, and he is the founder and director of the correspondence school, Engineering Enterprises.

This Dinner Meeting is set for Wednesday, October 15, 1980 at Hanover Trail, 1401 Route 10, Whippany, N. J. Scheduled events are: 6:00 PM, Cash Bar; 7:00 PM, Dinner; and 8:00 PM, Speaker. The Dinner cost is \$8.00.

R.S.V.P. are required for the Dinner by October 10, 1980. Contact Ed Griffith, at 455-8313, JCP&L, Madison Avenue and Punchbowl Road, Morristown, N. J. 07960.

Time: Wednesday, October 15, 1980 — See article for times.

Place: Hanover Trail, Route 10, Whippany, N. J.

Reservations: Required for dinner.

SPOTLIGHT ON NORTH JERSEY 1980: Year of the Senior Member

Conservatively, there are over twelve hundred members of the North Jersey Section that are qualified to be promoted to the grade of Senior Member.

Senior Member is the highest professional grade for which an application can be made. If you have been in active professional practice for 10 years, you probably have reached the level of professional maturity required for transfer to the grade of Senior Member.

Do you have any questions on meeting the requirements given below? Please contact the membership committee and we will be happy to discuss your qualifications with you.

These are the requirements:

A candidate for Senior Member shall have been in active professional practice for at least ten years and shall have shown significant performance over a period of at least five of those years, such performance including one or more of the following:

- (a) Publication of engineering or scientific papers, books, or inventions, or
- (b) Technical direction with evidence of accomplishment of important scientific or engineering work, or
- (c) Recognized contributions to the welfare of the scientific or engineering profession, or
- (d) Development or furtherance of important scientific or engineering courses in a "school of recognized standing", or
- (e) Contributions equivalent to the above in areas such as technical editing, patent prosecution or patent law, provided these contributions serve to advance progress substantially in the fields of electrical or electronics engineering, radio, allied branches of engineering or the related arts and sciences.

The following education in Electrical/Electronic Engineering can be credited to your ten years in active professional practice:

Bachelors Degree	- - - - -	3 years Credit
Masters Degree	- - - - -	1 year additional Credit
Doctorate Degree	- - - - -	1 year additional Credit

Request a Senior Member application package NOW for yourself and your associates. Aide in upgrading to Senior Member status can be obtained from the following members of IEEE North Jersey Section Membership Committee:

Don Weinstein
Kulite Semiconductor
1039 Hoyt Avenue
Ridgefield, N.J. 07657
(201) 945-3000

Joe Fink, Jr.
PSE&G Research Corp.
200 Boyden Avenue
Maplewood, N.J. 07040
(201) 621-7500, Ext. 722

SENIOR MEMBERS AND FELLOWS:

If you are already a Senior Member or Fellow, we need your help in identifying and encouraging qualified Members to advance to the Senior Member level. Generally, you know the requirements of the grade. You probably have contacts with qualified candidates and have firsthand knowledge of their engineering accomplishments. But most important, you can provide those essential ingredients of support and follow-up in completing the application for advancement. Because of your personal contact and knowledge, you can be extremely more effective in promoting the Senior Member grade than any effort we could launch at the Section level. The potential new Senior Member will welcome your involvement, especially if they're the modest type who hesitate to talk about their engineering accomplishments.

Now is the time to face the . . . CHALLENGE OF APPLICATIONS

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Taught by:
**Norman
Abramson**

Learn Satellite Data Networks

Astounding reductions in satellite system costs have taken place. Now learn how your DP needs can take full advantage of the technological advances of satellite data networks. Learn about regional and domestic systems. Learn about small earth terminals, costs, prices, tariffs, technical planning and timing. Dr. Norman Abramson, innovator of the ALOHA System, is a world authority on satellite systems. Send today for full seminar information.

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SNA is the blueprint for IBM's telecommunication's future. It's essential to understand it today. Prepare for it. Evaluate it. This seminar provides a complete overview of SNA. Learn user considerations, alternative network strategies and design concepts. Dr. Howard Frank, President of Network Analysis Corporation, and the guest speakers are all leading network analysts. Send today for full seminar information.

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So much is happening! So many computer manufacturers. Different common carriers. A confusing proliferation of networks and protocols. This seminar is designed for analysts who want to examine and understand the many alternatives available. Learn the options. Learn the benefits. Learn the pitfalls. Robert Lucky and Paul Green are two of the industry's leading experts in this discipline. Send today for full seminar information.

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**James
Emery**

Learn Strategies for Distributed Computing

The potential exists for tremendous efficiency and savings with distributed systems, but only if you understand the planning techniques. What are the trade-offs with distributed systems? Is there unnecessary duplication? How can you plan for the best distributed system? Professor Emery, a leading authority on management information systems, will give you a comprehensive view. Send today for full seminar information.

November 12-14, 1980
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Taught by:
**Robert
Holland**

Learn Managing the Data Base Environment

The most elegant data base can fall apart when it meets the increasingly complex demands of corporate information needs. Learn how to create the data structure that is *productive* and responsive. This seminar for managers shows the planning techniques that help you save time and labor in the creation of *practical* data bases. Dr. Holland is a world renowned data base expert. Send today for full seminar information.

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Wheeler Is Speaker For Microwave Meet

The Microwave Theory and Techniques Society, North Jersey MTT Chapter is sponsoring a lecture by Dr. Harold A. Wheeler, Chief Scientist, Hazeltine Corp.

Topics to be covered will include a description of new techniques for wide-band matching of small antennas and a description of a new logarithmic chart for impedance matching of small and/or resonant antennas.

Harold A. Wheeler received the B.S. degree in physics in 1925 and the honorary degree of Doctor of Science in 1972 from George Washington University, Washington, DC. He did post-graduate work, until 1928 at the Johns Hopkins University, Baltimore, MD. In 1978 he received the honorary degree of Doctor of Engineering from Stevens Institute of Technology.

He was employed by the Hazeltine Corporation from 1924 to 1946, advancing to Vice-President and Chief Consulting Engineer. In 1959, he resumed activity with this company as a Director, and is now Chairman Emeritus and Chief Scientist. From 1947, he was President of Wheeler Laboratories, Inc., Great Neck, NY, which became a subsidiary of Hazeltine Corporation and in 1971 merged into the parent company. His activity in the field of microwaves dates back to World War II, when he was one of the leaders in the Combined Research Group at NRL. That group was developing the future system of IFF (Interrogation Friend-or-Foe), then designated the Mark V. From that beginning grew the Mark XII, which is now the standard. In the Wheeler Laboratories, during the two decades after the war, he directed advanced work on microwave antennas and circuits, largely for precision tracking radar. He has contributed many papers to IRE periodicals; and has been granted 180 U.S. patents and many foreign patents.

Mr Wheeler has served the IRE in such positions as Director (1934, 1940-1945) and Chairman of the Standards Committee; he received the Morris N. Liebmann Memorial Prize from IRE in 1940. In 1964, he was awarded the Medal of Honor by IEEE and the Armstrong Medal by the Radio Club of America.

Time: 7:30 PM, Thursday, October 23, 1980.

Place: ITT Avionics Division Auditorium, 500 Washington Ave., Nutley, N. J. 07110.

Pre-Meeting Dinner: Ramada Inn, Clifton, N.J. (Rte. 3 Eastbound) 6:00 PM.

For reservations and further information contact: Richard V. Snyder, Premier Microwave, 33 New Broad St., Port Chester, N.Y. 10573 (914) 939-8900, or Hyman Goldman, ITT DCD, 492 River Rd., Nutley, N. J. 07110, (201) 284-3739.

Threat Or Opportunity?

The recently formed Computer/Communications chapter of the IEEE North Jersey Section will present a special panel having a different slant, one of interest to a broad range of IEEE members, from engineers through managers. The meeting is aimed at all those 800 IEEE members in northern NJ who have an active interest in communications and/or computers.

The meeting will serve as a technical update for members on latest communications and computer advances, especially how the two are coming together under information systems and driving the automated office.

In addition, the career implications of these new developments are spotlighted; especially for those members who are so busy they seldom think about this major subject.

A lively give and take is planned after an opening introduction and technical update by panel members. At least half the meeting will be devoted to questions and answers.

The panel will be a good cross-section of membership, including a user, manufacturer, common carrier, and consultant, so the audience members can identify with the panel.

Here's your chance to ask some down to earth questions in the right environment. Don't rely on just your company to worry about your career — you worry about it too!

To be chaired by Jim Morgan a member of our group and a management/technical consultant, the meeting is tentatively planned for November 12, 1980. More information to follow.

Open Meeting On Product Liability

The October meeting of the Reliability Group will be a "Ladies Night" meeting at the ITT Conference Center. Our featured speaker is Diane S. Wilner, an associate with the New York law firm of Skadden, Arps, Meagher & Flom. A lively question and answer session is expected following her presentation on the legal aspects involved in the design, manufacture and sale of products and services.

Diane S. Wilner is currently President of the New York Women's Bar Association, having graduated with a J.D., Magna Cum Laude. She has specialized in complex litigation in fields as diverse as insurance, securities, accountant's liability and negligence, as well as product liability. In addition to her law practice, she is an active lecturer and has published numerous articles regarding insurance, negligence and securities law, and legal procedure.

This meeting is open to all engineers and their guests. Attendance by all interested women is encouraged. There will be a pre-meeting dinner at the Sandalwood for those who wish to meet with our speaker, and reservations are required.

Time: 8:00 PM, Wednesday, October 22, 1980.

Place: ITT Conference Center, 500 Washington Ave., Nutley, N. J.

Pre-Meeting Dinner: 6:00 PM, Sandalwood Restaurant, Ramada Inn, on Route 3 Eastbound, Clifton, N. J.

For Reservations and Information Call: Sergei W. Bogaenko, Chairman (201) 227-7300 or 785-3673 and Arthur Santopietro, Vice-Chairman (201) 284-3128 or 796-0651.

Directions In Computer Controls

Dr. R. E. Zumwalt of Exxon Research and Engineering Company will be the North Jersey's Control System Society Meeting speaker on November 13, 1980 at Bell Telephone Laboratories, 600 Mountain Ave., Murray Hill, N. J. at 8 PM. Dr. Zumwalt's lecture is entitled, "Directions In Computer Control: Research and Practice."

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Report On The July PAC Meeting

July was a busy month for Professional Activities but then so is the rest of the year. July 16th Congressman Harold C. Hollenbeck (R-N. J.) ranking member of the House Committee on Science, Research and Technology, was to address our Section. I'm sorry you couldn't all attend, but then neither could Congressman Hollenbeck. The Congressman was taken suddenly ill at the last moment and I, having left for ITT could not be reached.

His staff stayed late in their Washington office. They reached me somehow at the large ITT complex and we decided that a substitute was needed.

In the last few hectic hours from 5 to 7 PM a speaker was found to deliver Congressman Hollenbeck's speech.

Past Assemblyman and field representative William J. Dorgan presented the Congressman's talk.

I thought you might be interested in some highlights, so here they are.

SPEECH HIGHLIGHTS

"It is evident that we need to come to a greater understanding of the causes of declining productivity. We cannot expect a simple fix; we must recognize that there will be no single solution.

With these thoughts as background, I might mention briefly the major fronts of activity in my Science, Research and Technology Subcommittee.

The Subcommittee's strategies are basically to:

First, work for broad understanding ourselves and call attention to the problems as a whole.

Second, to write and move legislation in those areas where we have jurisdiction.

And, third, to work cooperatively with other committees on subjects where we share jurisdiction or which are important but outside our jurisdiction.

Too often members of professional societies tend to excuse themselves from involvement in the political process on the grounds that "they don't know much about politics" — as if they were being asked to practice a form of black magic.

But I do not feel that politics and the political process are inherently complicated.

I want to suggest to you this evening that so-called influencing of legislation, if approached on an organized basis, involves only two major components:

First, identifying the key members in the process of consideration; and second, presenting them with reasonable, factual arguments that relate to their interest, as well as to your own.

As to the first, during a time when this nation is facing enormously technical and difficult issues with no easy solutions— we are losing the art of talking to one another.

In part, we are having a communications problem, not because we don't know what we are talking about, nor because we are not speaking clearly—but because, very often, we don't know who to talk to.

Your local representative, if he is doing his job, should help put you in touch with the right member on the right issue at the right time. And you will find that, in many

instances, the Member, himself, will have the opportunity to offer direction and to promote proposals on legislation in which you have an interest.

No profession has made a greater contribution to the well-being of Americans—and no profession has more to say about what kind of a country we will be in 20 years, in 50 years, or in the next century.

The agenda of public business does not have to be left to dealing with problems that have grown to the ugly size of a crisis. Affirmative proposals amending laws that do not work, or suggesting changes that will help your profession, or seeking alternative solutions to concerns are most welcome and productive.

The second component to influencing legislation which I have mentioned is the presentation of reasonable arguments in support of your position.

Congress is more responsive to public attitudes than many believe. But, for several years now, I have attended committee hearings and listened to witnesses for interest groups—including business and professional societies—who talk at great lengths about how a particular measure would affect their interests—but who never identify how the interests coincide with the public interest.

We are actively seeking the expertise of your profession—and the science community as a whole—to help provide the answers to a whole series of questions reaching well beyond the laboratory into almost every American business and home.

What role will your professional society play in seeing that this new technology will benefit and improve the quality of our lives rather than eliminate jobs and relegate our personal joys to those of plugged-in robots? Will you stand on the sidelines, leaving to government the responsibility for guiding technological change beneficially, or will you take an active role?

In order for Congress to do its job effectively—to provide the type of leadership required to effect the fundamental changes necessary for our governmental, environmental, economic and social needs—we need the close cooperation and input from you in the private sector who are developing and want to see implemented the answers to some of our technological problems."

THE FOUR PERCENT SOLUTION

Twenty five members were present at this meeting. Had you showed up we would have had twenty-six. You would have increased our attendance by four percent. That four percent is very significant. It should indicate to you just how important you and your voice can be. Everyone present had a chance to be heard but there is more.

While you missed this chance to voice your opinion another meeting was in the making.

On Monday, July 21 Congressman Hollenbeck chaired a Subcommittee on Science Research and Technology in Lyndhurst. Representatives from Stevens Institute, Becton and Dickinson, American Cyanamid, National Community Bank, Bendix Aerospace Electronics Group, United Auto Workers, NSPE etc. were there. Each did their thing. I didn't see anyone there concerned about the well being of the electrical or electronics engineer.

Is there anything to be concerned about? — RICHARD TAX