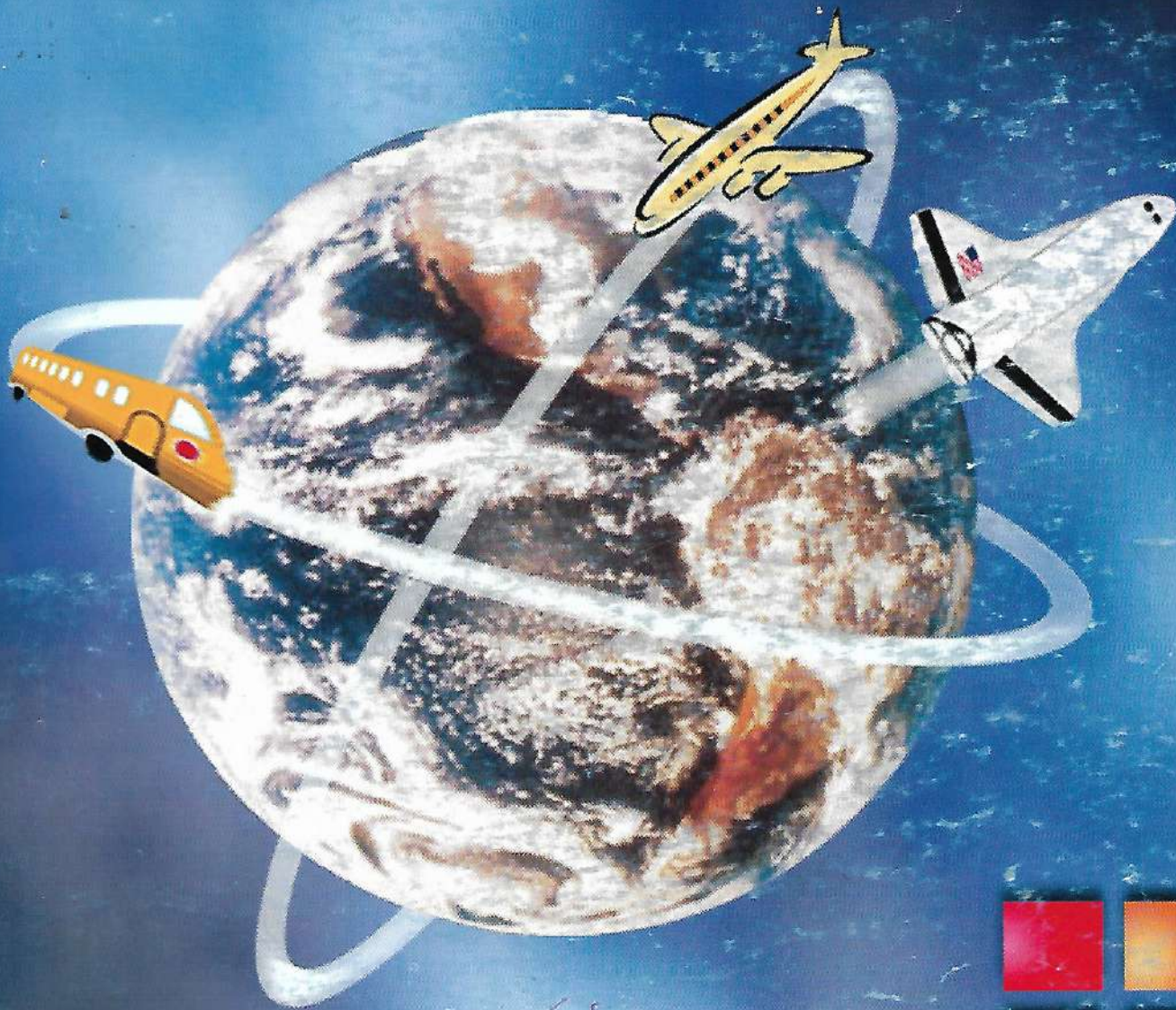


ASEI

American Society
of Engineers of Indian Origin



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14 Aug 2004



Engineering Excellence & Innovation



India Abroad

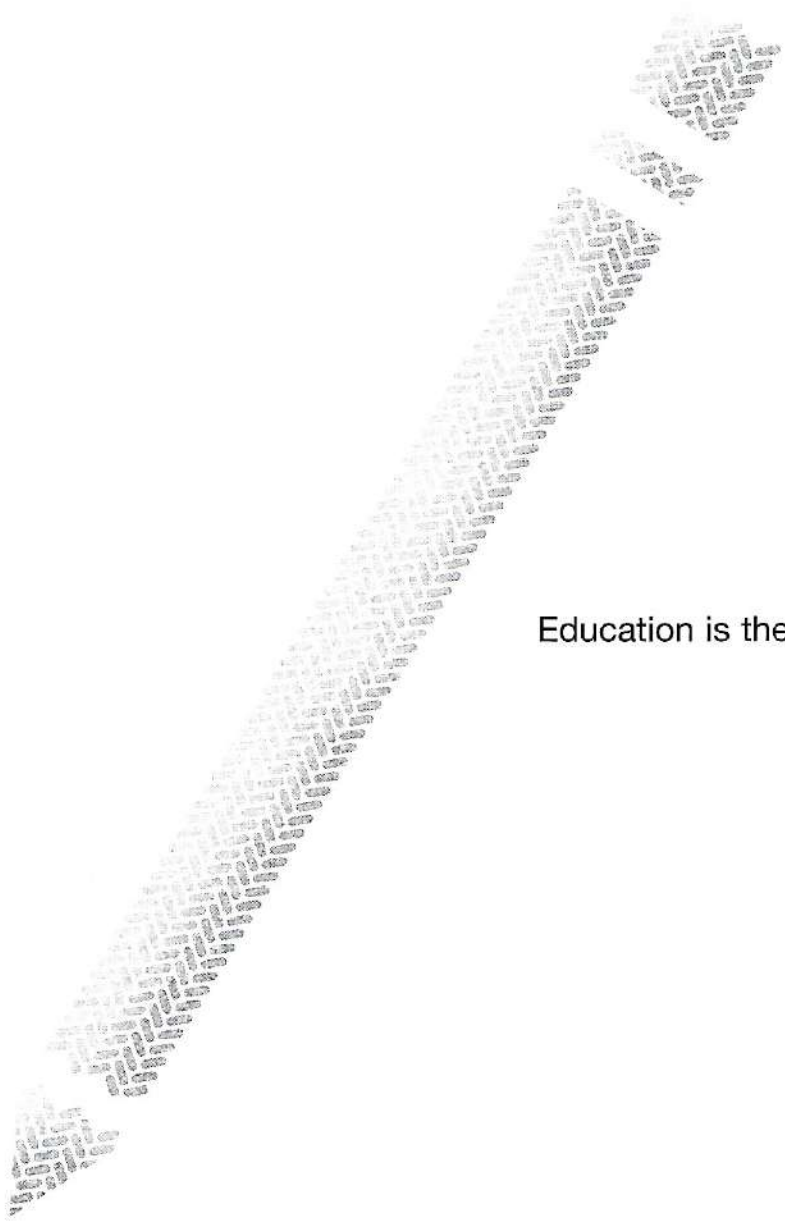


Rockwell
Automation

EATON



This is not just what we believe, it's who we are. It's what's imprinted in our 100 years of history. Like Henry Ford once said, "It is the man who stops learning, whether he is twenty or eighty, who is really old." That's why supporting education has always been one of our top priorities. Ford Motor Company is proud to support the American Society of Engineers of Indian Origin for your commitment to engineering, scientific and technical education.



Education is the road to freedom.



Ford Motor Company

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W E L C O M E

August 14, 2004



Dear Professional Colleague:

It is our distinct pleasure to welcome you to our 21st **Annual National Convention** hosted by the Michigan chapter at beautiful Ford Performing Arts and Community Center, Dearborn, Michigan.

The theme of the convention "**Engineering Excellence & Innovation – Celebration of the Century of Aviation & Transportation**" is an apt reflection of our present and future contributions to this great nation for the dedication of engineering excellence and innovation provided over the years.

This event has brought together engineers, scientists, educators, technocrats, entrepreneurs and industrialist from all over the world. We have lined up scintillating technical programs for you, including the several aspects of engineering areas such as manufacturing, quality control, automotive, consulting and construction engineering, governmental relations and other non-technical subjects such as financial management, health & wellness, Women and Youth mentoring program and mortgage magic during the day. Considering the need and popularity of Yoga, we have arranged the Yoga clinic for everyone to participate and enjoy the demonstration.

In the evening a grand banquet featuring eminent speakers from the Governor & Mayor's offices, industry, academia and other international organizations (see program content for details and timing). The evening session will also include an awards ceremony and an entertainment program by Dr. Narendra Sheth and his Gitanjali Group. Also, beautiful dance performance will be conducted by the national award winner artist Ms. Reena Valsangkar and local high school students.

Thank you for joining us and providing your financial, voluntary and other support for this organization and convention, without you this convention would not be possible. We hope to present to you the biggest National Convention in the history in the most professional manner for every edge and interest group.

With best wishes,

Perry (Parimal) Mehta
(Convention Chair, President - Michigan)

Dr. Ravi Rout
(Chairman - National)

Bhushan Modi
(Convention Co-chair)

Jag Kottha
(President - ASEI National)

Yogi Patel
(Treasurer - Michigan)

Bipin Mistry
(Vice President - Michigan)

Arvind Singhal
(Secretary - Michigan)

Jignesh Mehta
(Director – Michigan)

Mike Chaudhary
(Director – Michigan)

Sandy Labana
(Director - Michigan)

Ramu Ramamurthy
(Director – Michigan)

Lakhesh Khullar
(Director – Michigan)

And All other Convention Committee Members





OUR VISION

ASEI TO BE:

A nationwide network of engineers of Indian origin

A forum to assist members in advancing their careers

A facilitator of technology transfer between the U.S.A. and India

A national professional organization with the goal of "service to its members"

ASEI ACTIVITIES

CAREER ENHANCEMENTS

Provide career guidance and counseling

Facilitate networking

Assist in skill development through continuing education courses and technical seminars

Encourage PE registrations

STUDENT AFFAIRS

Providing guidance to students

Establish Merit Scholarships

Assist in practical training and job placement

ORGANIZATIONAL MATTERS

Establish a national office

Establish an editorial board and publish quality newsletter

Increase membership

Publish membership directory

Increase awareness of ASEI

Facilitate local chapter meetings

TECHNOLOGY TRANSFER

Conduct workshops on how to transfer technology to India

Assist in development of rural India

Provide communication channels for retired engineers

Disseminate opportunities in India for NRIs (non-resident Indians)

LIAISON WITH INDIA

Establish working relationship with government and private organizations in India

CONVENTIONS AND AFFILIATIONS

Conduct conventions throughout the U.S.A.

Cooperate with other professional societies with similar goals

LOCAL CHAPTER ACTIVITIES

Conduct bimonthly meetings to promote discussion/participation on current events

Communicate with ASEI National Office and other Local Chapters



American Society of Engineers of Indian Origin

21st Annual National Convention

A Message From The Chairman, ASEI National Board

It is my great pleasure and honor to welcome fellow members, distinguished guests, speakers and attendees to the 21st ASEI Annual National Convention on August 14, 2004. This year's convention is being held in the magnificent Ford Performing Arts and Community Center in the heart of Dearborn Michigan...home-town of the great Engineering Genius- Henry Ford who revolutionized the world of automotive manufacturing technology with the introduction of Model T. This is a proud moment for all of us. We are celebrating the 21 years of our existence and we certainly did not arrive here by accident but by virtues of our determination, dedication and commitment to achieve our mission and goal. In the past 21 years, we have accomplished a lot and we are embarking upon another list of initiatives, which will take us to the next level of our mission.



Last year we had established the historic Memorandum of Understanding (MOU) with SAE India International in the area of technology exchange. Our scholarship program to promote engineering and higher education has seen a three fold increase in the number of applicants; our technology exchange program with SAE India had an excellent start. ASEI has taken the lead in support of the Government of India's Collaborative Automotive Research (CAR) program.

These successful initiatives led Sri Atal Behari Bajpai, Honorable Prime Minister of India to recognize ASEI as one of the few select organizations in the world for making the difference in the life of non-resident Indians living in USA and the people of India. ASEI is one of the signatories to the proclamation that it will assist India to achieve the DEVELOPED NATION status by the year 2020.

ASEI has become a global mainstream organization with the links established with Engineering Society of Detroit (ESD), SAE India, SAE International and many other professional organizations. It is definitely a great ASEI accomplishment and we all should be proud. ASEI is growing...we now have three new chapters in Southern California, Wisconsin and Seattle, Washington.

ASEI's growth and accomplishment would not be possible without the commitment, dedication and selfless support of its office bearers of national board, executive committees, the national convention committee, local chapters. I take this opportunity to salute them all!

This convention is a celebration of all the milestones ASEI has accomplished and aptly the theme of this convention is "Celebration of Century of Aviation through Engineering Excellence and Innovation". With the dawn of this New Millennium, the bond between technology, engineering innovation and globalization of resources is a complex one, to understand this inter-relationship, we have invited experts to enlighten us with their state-of-the-art wisdom and knowledge. I hope we all will learn a lot from the Technical seminars during the day and from the keynote speech in the evening. The wisdom we learn today will guide us to set our future direction and provide the strength to continue making commitments for greater achievements for ASEI in the new millennium. I request all of you to pledge your support to your organization...the one and only ASEI. Make ASEI, an organization without boundaries.

I would like to end this note with a salute to a great entrepreneur engineer and a scientist who dedicated her life for the benefit of mankind and brought great pride, dignity and inspiration to all Indians and persons of Indian origin, The Great Astronaut – Kalpana Chawla. *"ASEI salutes you, on this 21st convention for your great sacrifice for space exploration and mankind by instituting a distinguished scholarship in your name for the future generation to carry out your vision".*

R. K. Rout

Ravi Rout
ASEI Chairman



Message from the Desk of Convention Chair:



Dear Fellow Engineers:

Since June 2003, it has been a great pleasure and pride to accept the responsibilities to serve one of the most reputed organizations – American Society of Engineers of Indian Origin (ASEI). I always wanted to get involved and take active participation in the organization, which supports the cultural heritage and professional activities. American Society of Engineers of Indian Origin has combination of both. As the President, I would like to congratulate for the great support and dedication to the new Executive Committee members Mr. Bhushan Modi (Co-Chair of Convention), Mr. Bipin Mistry (Vice President), Arvind Singhal (Secretary) and the financial heart of the convention Mr. Yogi Patel (Treasurer) and seven Directors. Also, I would like to extend my sincere thanks to the dedicated individuals and the entire convention committee to make this event possible and successful.

This is the 21st anniversary; ASEI has come a long way and now committed to take a big leap entering as one of the most elite professional organization in the Country. I am proud to be part and leader of ASEI during this historical event. ASEI has accomplished several things last and this year such as Dr. Kalpana Chawala & Dr. Hans Bajaria scholarship, signing Memorandum of Understanding with the Society of Automotive Engineers, teaming up with the Engineering Society of Detroit and Project Management Institute and presenting the biggest National Convention distributing the highest amount (more than **\$22,000**) in scholarship for engineering student in the history.

In additions to above successes, our vision and goals are very aggressive, and would like each and every one of you to join us to achieve those. We need to create STRONG voice of engineers, who come from or associated with Indian Origin. During the tough economic times and even during the good days, we need each others support and assistance. As the Convention Chair & President of Michigan Chapter, I am committed to build this bridge and would request everyone to join us to march success parade.

Goals and Vision for coming Years:

- Update website and keep it current – www.aseimichigan.org and www.aseio.org
- Conduct awareness for engineering profession in community and society
- Get ASEI involved with several other local and national engineering organizations such as SAE, ESD, PMI, NSPE, TIE, SME, and others to receive more exposure and networking opportunities.
- Provide more and more opportunities for networking amongst engineers and family
- Increase the membership and active participation of members
- Encourage active participation from Woman, Young engineers and Student engineers
- Provide permanent home for the organization with local or toll free number and permanent address.

I appreciate each & every one of you for your participation and support of the biggest 21st Annual National Convention; however, we are at new beginning. On behalf of ASEI, I am looking forward to see you all as the best supporters of ASEI in future. Let us know how would you like ASEI to achieve this journey and fulfill the goals.

**Perry Mehta
National Convention Chair & President - Michigan Chapter
August 14, 2004**



With Best Wishes and Compliments
To
21st Annual National Convention of ASEI
From
2004 ASEI MICHIGAN CHAPTER

www.aseimichigan.org



Perry (Parimal) Mehta
(President)



Yogi Patel
(Treasurer)



Bipin Mistry
(Vice President)



Arvind Singhal
(Secretary)



Bhushan Modi
(Director)



Jignesh Mehta
(Director)



Mike Chaudhary
(Director)



Lakhesh Khullar
(Director)



H. B. Singh
(Director)



Ramu Ramamurthy
(Director)



Sandy Labana
(Director)

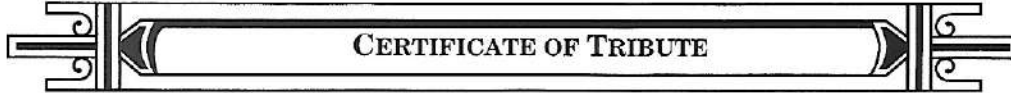


STATE OF MICHIGAN



Executive
Office

Jennifer M. Granholm
Governor



On behalf of the citizens of Michigan, Governor Jennifer M. Granholm
hereby offers this document in honor of the

American Society of Engineers of Indian Origin

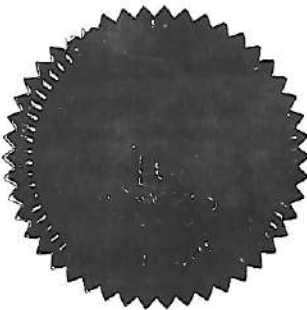
Whereas, The American Society of Engineers of Indian Origin (ASEI) is a non-profit, national professional organization serving community leaders of Indian origin and allows for networking through social activity, professional development, and community activism; and,

Whereas, ASEI works to promote a positive image of India, those in the engineering profession, and their members; and,

Whereas, ASEI has recently been awarded as an "Affiliate Council Member" by the Engineering Society of Detroit and has formed a partnership with the Society of Automotive Engineers; and,

Whereas, ASEI has over 10 chapters throughout the United States, including Michigan, and 2 chapters in India; and now therefore be it,

Resolved, That I, Jennifer M. Granholm, Governor of the State of Michigan, do hereby offer this Certificate of Tribute in recognition of the American Society of Engineers of Indian Origin for their dedicated work in the engineering industry and in promoting a positive image of India.



A handwritten signature in black ink, appearing to read 'Jennifer M. Granholm'.

Jennifer M. Granholm
Governor



Detroit RiverFront: From Vision to Reality

The Detroit Riverfront Conservancy, Inc., a 501 (c)(3) organization, was created to undertake the establishment, improvement, operation, maintenance, security and programming of the Detroit Riverfront, including the creation of a RiverWalk and all of the parks and green spaces along the Detroit Riverfront, from the Belle Isle Bridge to the Ambassador Bridge.

The Conservancy was created as a result of a recommendation from a 90-day visioning study under the leadership of Mayor Kwame M. Kilpatrick in 2002.

The Conservancy is governed by a 44-member board of directors, and eight committees (Advancement, Audit, Finance, Communications & Community Outreach, Planning, Operations, Governance, Executive) work on the various components of the project.

Several projects are part of the vision to transform the riverfront: The RiverWalk will be a riverfront pathway that ultimately will extend from the Belle Isle Bridge to the Ambassador Bridge for a total of 4.7 miles. The east riverfront is under design, and the west riverfront will be the second phase of the Conservancy's goal of a linked riverfront from bridge to bridge. The walkway is envisioned to be an average of 62-foot wide where permitted, to include the actual promenade along with landscaping. Half of the east RiverWalk is anticipated to be completed by end of '05 and the entire walkway open by end of '06. Visioning for the west riverfront was rolled out in March.

The harbor portion of the new Tri-Centennial State Park and Harbor opened in May and planning continues for the remainder of the park, Michigan's first urban state park. A ground-breaking for a new Port Authority terminal and dock took place in June and GM's portion of the RiverWalk, the GM Plaza and Promenade by the Renaissance Center, is slated to open this November. A feasibility study to determine whether the S.S. Columbia, one of the Bob-lo boats, can be restored will be completed this year.

Funding of this transformation of the Detroit Riverfront is spearheaded by a series of challenge grants provided by the Kresge Foundation, expected to total up to \$50 million. They will be awarded based on specific milestones of the project being completed and securing additional funding. To date, The Conservancy has secured more than \$19 million in commitments to meet the Kresge challenge of \$25 million.

The Conservancy has started work on a branding effort, which will include a name for the riverfront, a logo and a slogan. To learn more about the progress to transform the riverfront, visit the Conservancy's website at www.detroitriverfront.org.



KWAME M. KILPATRICK, MAYOR
CITY OF DETROIT
EXECUTIVE OFFICE

COLEMAN A. YOUNG MUNICIPAL CENTER
2 WOODWARD AVE., SUITE 1126
DETROIT, MICHIGAN 48226
PHONE 313•224•3400
FAX 313•224•4128
WWW.CI.DETROIT.MI.US

August 14, 2004

Dear Friends:

On behalf of the citizens of Detroit, it gives me great pleasure to extend greetings to everyone attending The American Society of Engineers of Indian Origin's 21st Annual National Convention.

The members of ASEI are dedicated to supporting the cultural heritage of Indian engineers and recognizing their professional accomplishments. I commend this organization for its dedication to positively impacting the community and assisting our country's newest citizens as they strive to achieve the American dream. The efforts of the ASEI are invaluable to supporting the professional aspirations of Indian engineers.

I sincerely thank the National Convention Committee of ASEI for contributing to the progress and prosperity of our community. Please accept my best wishes for an enjoyable event and continued success.

Sincerely,



Kwame M. Kilpatrick
Mayor



**With Best Wishes and Compliments
To
21st Annual National Convention of ASEI
From
2004 ASEI NATIONAL BOARD**

www.aseio.org



Dr. Ravi Rout, Chairman



Tim Madangopal, Vice President



Namrata Boveja, Treasurer



Jag Khotta, President



Sikha Gambhir, Secretary



Dr. Ravi Sharma, Member



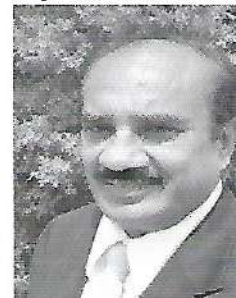
Perry Mehta, Member



Dr. Ramu Ramamurthy, Member



Jitendra Prajapati, Member
Pictures Not Available



Vipin Mehta, Member

Surjit Khanna, Member

Satish Parikh, Member

**Vinay Hudda,
Ex-Officer for Chapters in India**



DEBBIE STABENOW
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United States Senate

WASHINGTON, DC 20510-2204

August 14, 2004

American Society of Engineers of Indian Origin
7269 Wadebridge Drive
Canton, MI 48187



I appreciate . . .

. . . the opportunity to participate in the 21st Annual National Convention of the American Society of Engineers of Indian Origin.

It is exciting that you are celebrating achievements in aviation and transportation in Dearborn, the home of Henry Ford and the first commercial flight. This theme certainly highlights the many contributions made by engineers throughout our history.

Thank you for everything you do to further your profession and contribute to your communities. I hope you have a very successful convention.

Sincerely,

A handwritten signature in cursive script that reads "Debbie".

Debbie Stabenow
United States Senator

DS:wf

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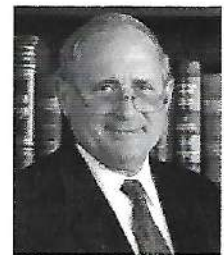


CARL LEVIN
MICHIGAN

United States Senate
WASHINGTON, DC 20510

August 14, 2004

Dr. R.K. Rout, Chairman
ASEI-National
7269 Wadebridge Drive
Canton, MI 48187



Dear Dr. Rout and Friends:

I am very delighted to offer my best wishes to the American Society of Engineers of Indian Origin as you celebrate the 21st National Convention and commemorate achievements in aviation and transportation, including the historic first commercial flight which had its beginning in Dearborn, Michigan. Michigan is honored to host this premier event, and to welcome the many distinguished professionals of ASEI and their guests from all over the United States to our great state.

ASEI provides a vital service as a support organization to engineers and professionals in technical and allied fields who are of Indian origin. While promoting Indian heritage and excellence for its members as they make important contributions to the fields of science and engineering, ASEI represents a significant force in career and business development, and technology transfer growth, in our country.

Again, best wishes for a great convention and for continued success of the organization.

Sincerely,

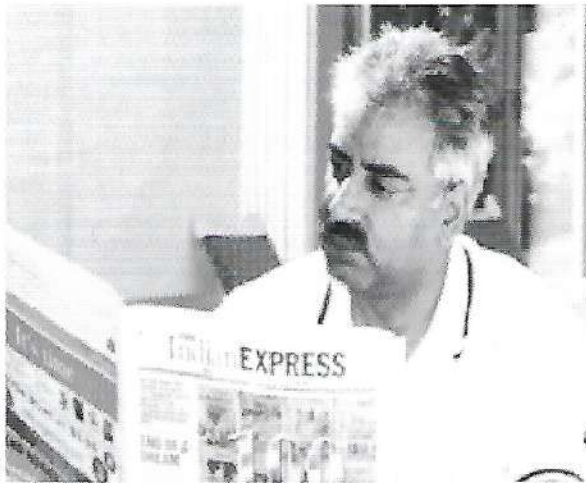
A handwritten signature in cursive script that reads "Carl Levin".

Carl Levin

CL/



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Nick Scheele

Nick Scheele is president, Ford Motor Company. He is responsible for vehicle design, global product development and information technology and management. He is also a member of the company board of directors.



Scheele, 60, previously was president and chief operating officer, a position he assumed on Oct. 30, 2001. Prior to that, he was group vice president, Ford North America, a job he assumed in August 2001. He also served as chairman, Ford of Europe, from Jan. 2000 through July 2001.

Scheele was chairman and CEO of Jaguar Cars Ltd., from 1992 to 1999. Under his leadership, Jaguar's sales doubled and Jaguar regained its place as one of the world's top marques in brand image, product quality and customer satisfaction.

Scheele's career at Ford began in 1966 where he held several successive senior purchasing appointments in Ford's British and European Operations before moving to the U.S. in 1978.

In 1988 Scheele became president of Ford of Mexico where he directed Ford's manufacturing and marketing operations.

Scheele is actively involved in many charity, business and community support projects. He received an honorary degree from Durham University in 2003. He was installed as Chancellor at University of Warwick in 2002. He also serves on the Advisory Boards of Coventry University and Durham University as well the Fullbright Commission.

In June 2001 the British Queen awarded Scheele a knighthood. He was awarded the Order of St. Michael and St. George for services to British exports. He serves on the Advisory Board for the British American Chamber of Commerce and is on the Executive Committee of the Society of Motor Manufacturers and Trader.

He is particularly interested in the education of young people and has been involved in a number of key initiatives to raise the profile of training and education. He was voted a lifetime member of the NSPCC (National Society for the Prevention of Cruelty to Children) after successfully chairing an appeal to raise money for Boole House, a new childcare center in Coventry, England.

He is an active supporter of the Save the Children fund and the St. Basil's appeal for Homeless Children and is a Patron of Greenways Homes. He chaired the annual fundraising campaign for the Southeast Michigan United Way in 2003.

He was born in Essex. Married with three children, Scheele lists reading and music as his interests. He is an accomplished linguist and speaks several European languages fluently.

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Best Wishes to
American Society of Engineers
of Indian Origin





Robert A. Ficano
County Executive

Wayne County Building
600 Randolph - Suite 349
Detroit, Michigan 48226
(313) 224-0286
Fax (313) 967-6558



August 14, 2004

Greetings!

It is my pleasure to welcome the *American Society of Engineers of Indian Origin* (ASEI) to Wayne County for your 21st Annual National Convention.

I am proud to say that many of the *ASEI* members are residents and employees of Wayne County and contribute a great deal to the betterment of our County. I am also glad to know that Perry Mehta, one of our great local leaders and a good friend, continues to lead the Michigan Chapter of this fine organization. He truly exemplifies the word commitment and serves as an example of what can be accomplished when you believe in making a difference.

The *American Society of Engineers of Indian Origin* is known for providing guidance to its members to assimilate them into the communities in which they live. They also lend a helping hand to charitable organizations through technical services, as well as provide scholarships to students studying engineering or science. ASEI promotes the highest standards in engineering and science, advances the value of engineering and science to society, and facilitates technology exchange between the United States and India.

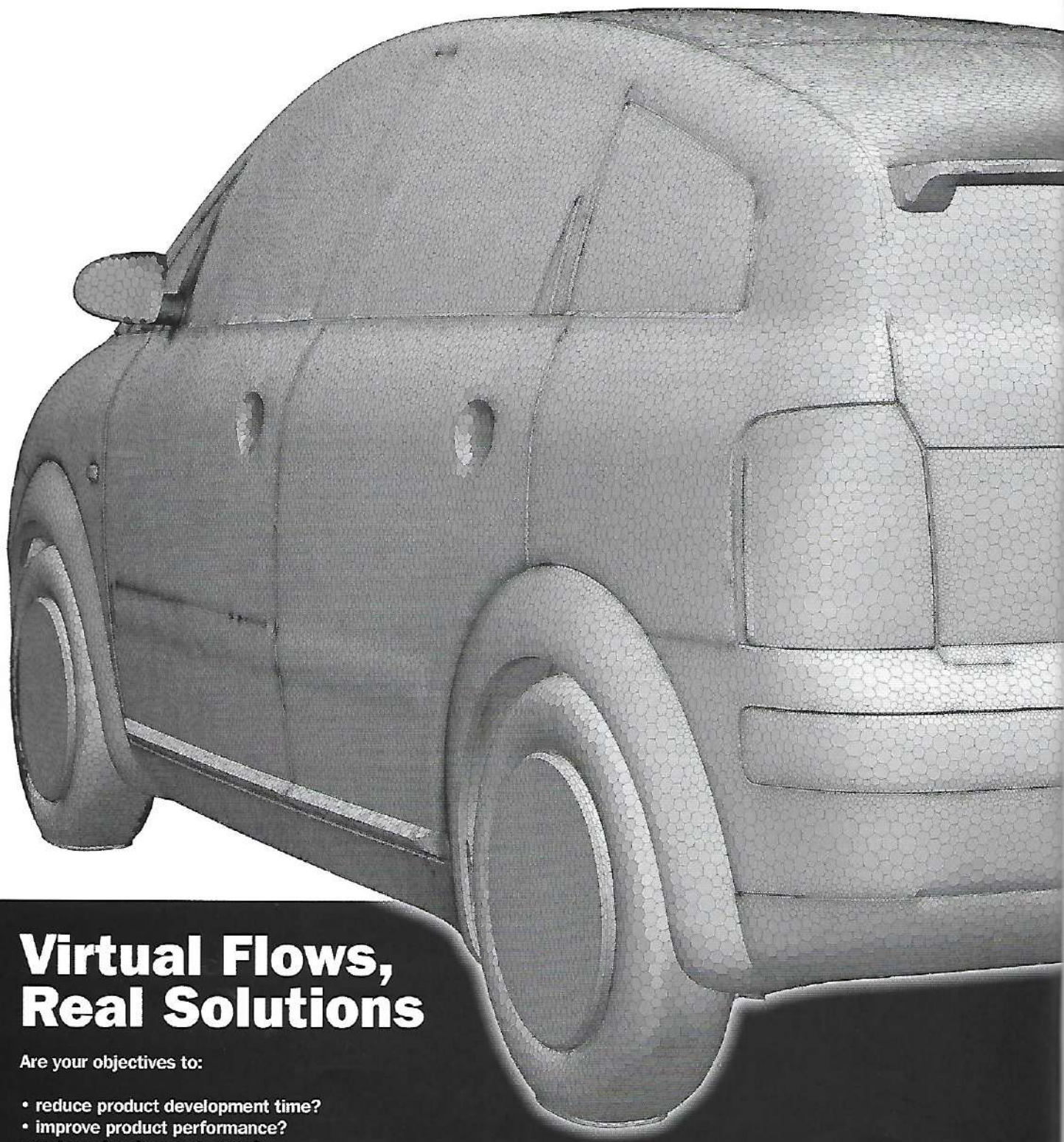
I want to commend the *American Society of Engineers of Indian Origin* for their long-standing dedication to promoting opportunity through technology, engineering and science. On behalf of the citizens of Wayne County, I wish your organization continued success and encourage each of you to explore Wayne County and all we have to offer.

Sincerely,

Robert A. Ficano
Wayne County Executive



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Message from the Technical Sessions Chair

Dear ASEI Members and guests at the 21st National Convention, Dearborn, Michigan,

I am delighted to present the technical panel program, which has been developed with full co-operation and support from Ravi Rout Chairman, ASEI National Board and Perry Mehta, convention Chair, ASEI 21st National Convention.

I would like to discuss the basic elements of the technical panel that is being presented at the 21st National Convention here in Dearborn, Michigan.

The core program of the Technical presentation is divided into four major groups and they are:

- ❖ Single Panel Open Forum Session
- ❖ Three Panel (Concurrent) Financial, Legal, Health and Wellness Tracks
- ❖ Single Panel Open Forum Luncheon Program
- ❖ Three Panel (Concurrent) Technical Program

Single Panel Open Forum Session is designed to present the topics for the whole membership and attendees of the convention to give broader out look of ASEI National Agenda consisting of:

1. ASEI/SAE India Strategic Partnership Initiatives presented by Murli Iyer, Manager International divisional affairs, SAE International and Signatory member of the ASEI/SAE India MOU, which was signed during the 20th national Convention held in Cleveland, Ohio in September 2003.
2. Indo US Science and Technology Initiatives is presented by Dr. Kamal Kanth Dwivedi, Science and Technology Counselor, Government of India, based in US Embassy, Washington, DC.
3. ASEI /CAR (Collaborative Automotive Research) program is an ASEI National .Program initiated and prepared by Dr. S.M. Shahed, past President and Chairman ASEI and presented by Jag Kottha, President, ASEI. CAR Program is managed through Government of India through the Department of Science and Technology under the direct supervision of Dr. R Chidambaram, Scientific advisor to Prime Minister, Government of India, New Delhi.

Dual Panel (Concurrent) Financial and Legal Tracks are presented by various professionals in two different sessions running concurrently specializing in Financial and Legal matters.

Single Panel Open Forum Luncheon Program consists of New Detroit Riverfront Initiative presented by Detroit Local Government officials followed by Luncheon Keynote Speaker Dr. Beheruz Sethna, President, West Georgia University presenting a thought provoking Topic: Indians in American Society: Doing Well; Doing Good, What can be improved??

The final portion of the Luncheon program is awarding of the 2004 ASEI National Scholarships including the prestigious Kalpana Chawla Scholarship and various Graduate and Undergraduate student Scholarships selected from all across the USA and headed By headed by Ramu Ramamurthy, ASEI National Board member.

Finally the afternoon sessions are designed to be Three Panel (Concurrent) Technical Program consisting of three different tracks running concurrently throughout the afternoon with breaks in between the sessions. The three vertical tracks are:

Quality, Advanced Technology and Business and Government

- ❖ The Quality track consists of ISO-9000 Initiatives, Six Sigma and IT Industry
- ❖ Advanced Technology track consists of Advanced Simulation and Manufacturing, Alternative Fuels and Challenges of Flight and Boeing's contributions.
- ❖ Business and Government track consist of Business Initiatives, Construction Industry and Mortgage Magic

I hope and wish you will enjoy the technical sessions and gain some insights for your personal growth and prosperity.

Thanks

Jagannadham Kottha

President, ASEI and Technical Sessions Chair



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MURLI IYER holds an MBA in International Business from the Rochester Institute of Technology, New York. He also holds Degrees in Russian language and Science. Mr. Iyer has studied Russian at prestigious institutions like School of Foreign Languages at the Jawaharlal Nehru University, New Delhi, India, University of Texas at Austin, USA, and Moscow Linguistic University, Russia. Mr. Iyer has worked and consulted for over thirty years with a number of international organizations in the areas of international business development, strategic marketing, and cross-cultural negotiations. He has also served as a Russian Interpreter with the Russian Red Cross, US Dept. of Commerce, Ministry of Energy of the Government of India and the UNDP. He has taught courses in International Business, Cross-cultural communication, and Russian language at the Rochester Institute of Technology, St. John Fisher College, Rochester, New York, and Legacy International, Bedford, Virginia.



DR. KAMAL KANT DWIVEDI joined Indian Embassy at Washington DC as Counsellor, Science and Technology in May 2003. He got his higher education in Chemical Sciences from Lucknow University and later obtained his Ph.D. in 1977 from Indian Institute of Technology, Kanpur. He has published about 200 research papers in refereed journals in the area of Chemical, Environmental, Nuclear and Material Sciences. He is recipient of 10 different national and international fellowships and "India 2000 Millennium Award (1999)". During Jan. 1999 - Nov. 2002, Dr. Dwivedi served as the Vice-Chancellor of Arunachal University, Itanagar. He has been associated with a large number of professional and scientific organizations as their President, Chairman, Fellow or Member. Presently, Dr. Dwivedi is heading S&T wing of the Indian Embassy in Washington DC and is responsible for developing Indo-US program in various fields of Science and Technology.



S.M. SHAHED is Vice President, Advanced Technology, Honeywell Turbo Technologies - a business unit of Honeywell International. Mr. Shahed has worked for 35 years in developing emissions control technology for diesel and gasoline engines. His publications in this field have received several prestigious international awards including James Clayton Award, IMechE, Horning Memorial Award, SAE, Arch Colwell Award, SAE. He is a Fellow of SAE, ASME and IAE (Institute for the Advancement of Engineering). He was awarded the Distinguished Service Citation of the University of Wisconsin. His work at Honeywell involves developing and applying advanced boosting technology to reduce emissions and improve fuel economy of gasoline and diesel engines for passenger cars, commercial vehicles and equipment. Most recently Shahed served as 2002 President of SAE International. He serves as an advisor to the Government of India on automotive research programs. He is a life member of ASEI and served as President in 1989.



MONISH VERMA of Smith Barney in Farmington Hills is a Financial Consultant and Financial Planning Specialist who works with affluent clients with sophisticated financial needs. Developing and monitoring plans that include professional asset management, personal lending, cash management, private equity and other alternative investments. Mr. Verma also helps small, midsized and large companies develop, implement and maintain retirement plans. Mr. Verma has been in the securities industry since 1995. He holds monthly workshops on the above topics.



ZEINA A. HALLAL of American Express Financial Services is Financial Advisor who has Comprehensive training in financial planning and products. All licenses and registration required to transact business including National Association of Securities Dealers (NASD) registration and state securities and insurance licenses. Registered as an investment advisor agent of American Express Financial Advisors Inc. in stated where required. Ms. Halal provides Personal financial planning includes planning for retirement, asset allocation, investments, education, and risk protection. She holds BBA and Master in Finance and Banking from American University of Beirut.

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ARATI PATEL, CPA is a sole practitioner serving a full service CPA firm. She provides Professional Accounting and Tax services to small and mid-size businesses and to Individual clients. Arati Patel is a Walsh College graduate with Bachelor's in Accounting. Arati has been in public accounting since past eleven years. She has been certified from the Michigan State Board of Accountancy and has been an active member of Michigan Association of Certified Public Accountants and American Institute of Certified Public Accountants. She has also been an active member with Sterling Heights, Utica and Shelby Chamber of Commerce and various other organizations. With her extensive Accounting and Tax Training and experience, Arati Patel can provide valuable insight behind the numbers that can save you and your business a great deal of money and time. Ms. Patel helps established companies to grow, and helps startup companies with building a solid foundation. She provides quality services, with utmost integrity and commitment to her clients. She keeps herself informed of the current tax and business laws and utilizes those to her clients' best interest. She welcomes new clients like you and assures quality and timely services at a reasonable rate.



FRANK C. KERR, born, Detroit, Michigan, October 15, 1967; *Accreditation:* Admitted to the Bar; 1996, Michigan. *Education:* University of Michigan-Dearborn (A.B. Economics 1990); University of Detroit-Mercy School of Law (J.D. 1996). *Professional:* The Law Office of Frank C. Kerr, P.C. was founded in 1998 as a private practice specializing in representing professional and corporate clientele in commercial, real estate, employment and immigration law. Mr. Kerr is thoroughly knowledgeable in visitor, student, investor, professional, intracompany transfer, religious worker and NAFTA visas as well as labor certifications, reduction in recruitment and employment and family based permanent residency applications. He is also experienced in working with numerous governmental agencies, including the Bureau of Citizenship and Immigration Services, Immigration and Customs Enforcement, Department of Labor, Department of State, U.S. Immigration Court, Administrative Appeals Unit and the Board of Immigration Review. In addition to his private practice Mr. Kerr is also of counsel to the law firm of Haliw, Siciliano & Mychalowych, P.C. (Farmington Hills, Michigan).

ROGER (RAJENDRA) RATHI, MSEE, JD is an attorney in Detroit from the Indian Community and concentrates his practice in Business Law, Employment Law and Immigration. Among other things, he handles incorporating new business, sale or purchase of business, employment and wage disputes, H-1, L-1 and Green Card. Prior to his law practice in 1999, Mr. Rathi worked for Ford Motor Company, General Electric Co. and ACRO Services as electrical engineer. He has been a member of American Immigration Lawyers Association (AILA), American Trial Lawyers Association (ATLA), State Bar of Michigan, Federal Bar and American Bar Association (ABA). He has been participating in ASEI activities for the last 4 years.



SONAL SHAH is the Associate Director for Economic and National Security Policy at the Center for American Progress. She focuses on trade, outsourcing, post conflict development and other economic and development policy issues. Prior to joining the Center, she was the Director of Programs and Operations at the Center for Global Development, managing the daily operations of the center and serving as a strategic adviser to the president on trade, migration and aid issues. Prior to the non-profit world Sonal worked at the Department of Treasury on various economic issues and regions of the world. She worked as the senior advisor to the Secretary of Treasury and the Under Secretary of Treasury on the Asian financial crisis. She also served as the Treasury representative in Bosnia and Kosovo working on rebuilding the central bank, currencies, banking systems and budgets after the conflict. She worked at the National Security Council and National



Economic Council with Samuel Berger and Gene Sperling on international economic and trade issues. Before she left Treasury, Sonal was the Director of African Nations working on poverty alleviation and development issues in sub-Saharan Africa. Sonal is also the co-founder of a non-profit organization called Indicorps (www.Indicorps.org) and was named as the India Abroad Person of the Year in 2003. Indicorps is a U.S.-based non-profit organization that offers one-year service fellowships for Americans of Indian origin to work on specific developmental projects in India. Indicorps aims to build a new generation of Indian American leaders that understand the strength of being Indian and American, and inspiring them to work with innovative non-profit organizations in India to foster an exchange of ideas and expertise and make a positive difference in the world.



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NAMRATA BOVEJA has served on the ASEI National Board for 4 years as the Treasurer and Secretary. She also founded the ASEI University of Maryland College Park (UMCP) Chapter in 1998 and served as its President for two years. Namrata completed her undergraduate studies in Mechanical Engineering and her MBA in Finance and Marketing from UMCP. As an undergraduate, she completed several internship assignments with the Ford Motor Company (Business Development), Duron Paints & Wallcoverings (Manufacturing), and with GE Industrial Systems (Technical Sales). Currently she is the Sales & Marketing Manager with Ideal Electrical Supply Corporation. Previously, she was the Residential Hunter Sales Engineer for the Northeast Region with GE Industrial Systems where she focused on increasing incremental business by working directly with regional and national homebuilders. She is also a graduate of GE's Technical Sales Leadership Program. She is actively involved in community service, extracurricular, and leadership activities both in professional and the academic environment.



DR. ARVIND SINGHAL received his Bachelor's Degree in Mechanical Engineering from the University of Indore, India in 1978 and a Master's Degree in Mechanical Engineering from the University of Michigan, Ann Arbor in 1995. Professional Affiliation includes the American Society of Industrial Security (ASIS) and the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE). Arvind is a registered Professional Engineer (PE) with the State of Michigan. Arvind has taken a challenge to motivate younger engineers to be a part of the ASEI. Nationally, he is coordinating with various Organizations with in the Universities. Since 1986 Arvind is working in the consulting field with Ayres, Lewis, Norris and May, Inc. (ALNM) in Ann Arbor. Arvind has over 20 years of experience in overseeing the design of water and wastewater projects for numerous communities and is ALNM's in-house expert on water security. His work on the City of Atlanta's water security system was in place for the 1996 Summer Olympics. He has performed similar services for the City of Detroit and the Western Township Utilities Authority. As a Project Manager, Ann Arbor, Michigan in 1986. Arvind is married to Poonam and has two daughters Nidhi and Nishi. Poonam is operating a Montessori Pre-School in Ann Arbor.



MITAL AMIN MPT is the owner of All-Pro Occupational Rehab LLC and Co-owner of All-Pro Physical Therapy. She graduated from University of Michigan in 1999 with a Master's degree in Physical Therapy. Her husband, Rajiv Amin MPT, graduated from Idaho State University in 1999 with a Master's degree in Physical Therapy. She and her husband specialize in Workman's Compensation and Orthopedics. Over the years, many companies have chosen her clinics for work related injury rehabilitation. Today, her speech will explain the benefits of earlier rehabilitation, prevention, and reducing worker's compensation claims.



PATRICK DOHER, P.E., a Senior Vice President at JJR, has over twenty-three years experience as a civil engineer and project manager. In his career, Mr. Doher has lead multi-discipline teams on large-scale river and lakefront development projects, which involve public and private development. His previous project work includes the Tri-centennial State Park and Harbor (Detroit, MI), the Bay Harbor Waterfront and marina (Petoskey, MI), and the Navy Pier Revitalization (Chicago, IL). His experience enables him to successfully work with clients from project inception/concept alternatives phase, through permitting, to implementation and completion of construction. He is currently the project manager of the Detroit Riverwalk, an urban waterfront revitalization project covering 2 miles of riverfront and providing community access and destination locations along the waterfront of Detroit.



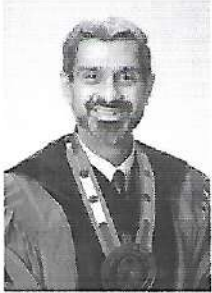
DEAN STERMER worked as a project manager for the Detroit Riverfront Conservancy, a non-profit 501 (c)3 organization committed to creating and maintaining public access to the Detroit River Since July 2002. The initial 3 miles segment of the Riverwalk will be on the East Riverfront, spanning 2 miles from the GM property to the MacArthur Bridge at Belle Isle. The West Riverfront initiative covers 1.5 miles from downtown Detroit to the Ambassador Bridge. He worked as a development manager for Hines since 2000, primarily on waterfront projects along the Detroit River in the River East District. Projects in River East include: Project manager for a 1,170 space parking garage development in the River East District. He is responsible for master planning and development activities in River East District, a 24 acre



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master-planned community on the east side of the General Motors Renaissance Center. The infrastructure improvements project currently underway in River East is funded by a \$25mm state grant. The project is administered per the terms of a development agreement between the State of Michigan, General Motors and the City of Detroit. He is registered Architect in Michigan, Member of ULI. He has spent 7 years in real estate finance with the Chicago office of Ernst & Young. He holds Environmental Science degree from William & Mary, Masters in Architecture from Rice University and MBA from University of Chicago.

Dr. BEHERUZ N. SETHNA has served in leadership posts in university education development and management in the USA since 1989. Dr. Sethna is the first Indian-born person to become CEO of a university in the United States of America. In October 1999 Dr. Sethna was appointed as the interim senior vice chancellor of academic affairs of the University System of Georgia, USA. Since August 1994 he has served as President of the state University of West Georgia, a campus of 8,700 students. Among the many achievements he is credited with, was the launching of Georgia's first Advanced Academy for gifted high-school students, obtaining approval for campus master plan, awarding the University's first honorary doctorates, and the state's first Honors College. Dr. Sethna is a B.Tech. (1971) in Electrical Engineering from IIT Bombay, MBA (1973) from IIM Ahmedabad and Ph.D. (1976) in Business from Columbia University. Dr. Sethna has earned recognition for his teaching innovation from the Decision Sciences Institute in areas of marketing, management information systems, CAD/CAM etc. Recently he has been awarded Honours Professor of the year by the students Honours Council, Honorary Alumnus Award by University of West Georgia Alumni Association and Citizen of the Year Award by Carroll County Chamber of Commerce. He has authored more than 50 scholarly papers and a book.



JAG KOTTHA, is the President of Crestbest Quality Institute (CQI), located in Cleveland, Ohio. CQI is a quality systems training and consulting company, that helps companies across all industries achieve quality certification. He is also an adjunct professor and instructor in Quality Related Courses at Kent State University where he teaches various business and quality systems related courses along with supporting the continuing education and work-site training programs. He obtained his BE (Electronics and Communication Engineering) Osmania University, MS Bio-Medical Engineering, Case Western Reserve University and an MBA from Baldwin Wallace College. Along with being the president of ASEI, Jag is an active member of the Technical Committee and the Education Committee: (ASQC Cleveland Chapter); Project Coordinator, ISO Focus Group. He has ten years of experience in operation in engineering and management consulting services company: Specializing in the field of Health, Energy and Environment. Jag is also a lead auditor for ISO 9000 and ISO 17025 and has helped many companies in the U.S. and India to achieve certification status.



Jag will be presenting the basic system configuration of ISO 9000 standard and relate it to other standards such as QS 9000, TS 16949, ISO 14000, ISO 17025 and ISO 13485 for medical devices. Jag will also bring distinctions for these standards and identify the process for achieving certification for these standards.

STEPHEN GAZY graduated from the State University of New York at Buffalo as a petroleum engineer. In the 1980's, Steve was assigned to various oil and gas exploration projects. In 1987, Steve completed his graduate studies at Kent State University and was recruited by the American Gas Association to perform field inspections and product testing to ANSI requirements. In 1989, Steve became qualified as one of North America's first auditors for ISO 9001 third-party assessments. Shortly thereafter, Steve helped certify the first US Company to ISO 9001. Steve has held various management positions for registrars such as: AGA Quality, ABS Quality Evaluations and AOQC Moody International. Steve is now a Principle at Great Lakes Management Services, LLC where he serves as Vice President. Steve is also a principle in CWS, LLC, a software company developing applications to assist clients with risk assessment and remote auditing. Steve continues to publish numerous articles on ISO 9000 applications and remains active with IAAR, AIAG, SME, and ASQ.



Stephen will be discussing the overall value of independent quality auditing and its financial impact to the supply chain. He will point out differences between third-party assessment models and second-party audits for assessing supplier quality. He will discuss registrar objectives, customer needs and the market pressure for suppliers to move from the compliance based systems to more efficient methods, which will include process improvement and risk analysis.



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K.N. GHIA; After completing his graduate education in Mechanical and Aerospace Engineering at Illinois Institute of Technology, Chicago, in 1969, Dr. K. Ghia joined the University of Cincinnati, where he is currently Herman Schneider Professor of Aerospace Engineering and Engineering Mechanics, and Fellow of the Graduate School. He has been the recipient of numerous research and teaching awards at the University of Cincinnati. His major research activities are in fluid dynamics, with emphasis on simulation of steady and unsteady separated viscous flows. Dr. Ghia's research work has been sponsored by AFOSR, ONR, ARO, AFRL, NASA, NSF, General Electric Aircraft Engine Group, and McDonnell Douglas (Boeing) Corporation. This research has led to many publications and presentations. Dr. K. Ghia has held a number of visiting positions and has served on the Fluid Mechanics Technical Committee for AIAA, ASME and IMACS. He served as an Associate Technical Editor of the Journal of Fluids Engineering, 1980-1990. He was named the Freeman Scholar by ASME for the 1995-96 biennium. He has chaired many symposia and meetings, and is a Life Fellow of ASME. He served as Co-Editor of the International Computational Fluid Dynamics Journal, 1991-1998, and Director of the Institute of Computational Mechanics. He currently serves as an Associate Editor of AIAA Journal & Co-Director of CFDRL.



VICTOR CANNACI



DR. BRIJ SETH has about 37 years of experience in professional scientific and engineering areas. For about 10 years, during his graduate studies, Post Doctoral, and Research Associate work, he gained experience via teaching mechanical engineering courses and applied research in the areas of lubrication and wheel-rail adhesion. From June, 1976 to January, 2003, he contributed in the planning, development, and implementation of advanced manufacturing technology projects at the Ford Motor Company, where he retired as a Corporate Technical Specialist. Noteworthy achievements include: hard mount cold engine balancing systems; signature analysis based engine diagnostics cold test systems; in-process test systems in engine manufacturing; end of line test systems for powertrain; quality improvement strategies; radio frequency based automatic vehicle identification systems; and rapid prototype fabrication systems. For the last 12 years, he made significant contributions in the machining processes performance reliability improvement through the development and wide scale implementation of mechanical signature analysis based methodologies. In addition, he contributed in machining process improvement projects, such as: tool condition monitoring; geometric & thermal characterization of machinery; real time thermal error compensation; and spindle reliability & accuracy improvement. His work, combined with several other projects for reliability improvement, has led to the development and implementation of up-front machining process design principles to improve robustness in manufacturing. Dr. Seth leveraged several projects through universities and served on the Industrial Advisory Board of Precision Machining Research Center at Georgia Tech. He is an ASME Fellow; a SME Fellow; and is a member of the ASME B5/TC52 Standards Committee for Machining & Turning Centers. Since his retirement, he is heading his consulting firm Advanced Manufacturing Technology Services, Inc.



HIRA FOTEDAR is Vice President, Quality for Eaton Corporation. He was appointed to his current position in 2001 after serving as Director, Corporate Quality since 1993. He joined Eaton in 1977 as Manager, Product Engineering at the Engine Components Division facility in Sao Jos de Campos Brazil. He held the position of Executive Engineer Latin America and Chief Process Engineer in Battle Creek, Michigan before being named Manager, Product-Quality Assurance in 1982 and Manager, Productivity / Quality in 1992. He served as Chairman, Ohio Award for Excellence 1991 – 1993, Sr. Examiner of Malcolm Baldrige National Quality Award (1995-1998). Fotedar has a B.S. degree in Metallurgical Engineering from Banaras Hindu University, India, M.S. & Ph.D. degree in the same field from the University of Washington, Seattle, Washington. He is a Fellow of the American Society of Quality.



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ALEJANDRO BARREIRO is currently the Business Unit Manager for the assembly operations of the Heavy-Duty Transmission Division plant in Kings Mountain, NC. Prior to this position he was Director, Eaton Quality Institute responsible for the development and deployment of the Operational Excellence and Quality strategies for Eaton Corporation. He joined Eaton Corporation in 1984 at the Engine Components Division plant in São José dos Campos, Brazil as a Quality Engineer and soon thereafter promoted to Chief Manufacturing Engineer. In 1989 he moved to the Engine Components Division plant in Montornés del Vallés (Barcelona), Spain where he served as Quality Assurance Manager. He joined the Corporate Quality group in Southfield, Michigan in 1994 as Manager of the Eaton Quality Institute for international operations. He was promoted to his last position of Director, Eaton Quality Institute in 2000. Barreiro has the equivalent to a bachelor's degree in Mechanical Engineering and master's degree in Industrial Engineering from the Escola de Engenharia Industrial de São José dos Campos, Brazil. He also holds an M.B.A. from the University of Barcelona, Spain.

DANIEL M. KUTZ joined SBTI in May 1998 as a Master Consultant. He taught and consulted with client companies worldwide in Six Sigma methods and productivity improvement. He was the Project Manager coordinating the Six Sigma deployment efforts in Cummins, Cooper-Cameron, Entergy and BASF Automotive Coatings. Dan previously managed the Six Sigma deployment in Cutler-Hammer and Eaton and worked as an instructor of Champions and/or Black Belts at Invensys, Crompton, Albemarle, Paccar, Trane/American Standard, and Great Lakes Chem. Corp. and others. The Cummins Six Sigma deployment is just one example of excellent results, delivering at least 50 times the incremental costs within two years of the program inception. Prior to his work as an SBTI consultant Dan had a successful career at Motorola from 1986 to May 1998. He served in a variety of capacities including the support of Motorola Semiconductor Operations' Hong Kong and China factories. He was involved with quality improvement projects in many aspect of his career at Motorola, including the application of Six Sigma methods to production and business processes. He completed a B.S. in Electrical Engineering from Marquette University in 1989 and a MBA and a Master's of Science in Engineering from The University of Texas at Austin in 1994.



HARI BINDAL, P.E. is environmental Protection Specialist at the U.S. Coast Guard Engineering Logistics Center, Baltimore, Maryland, and manages the USCG Vessel Environmental Compliance Program. Mr. Bindal has a Bachelors degree in Civil Engineering and two masters, one in Public Health Engineering from India, and second in Environmental Engineering in the USA. Mr. Bindal is married to Lalit, lives in Bowie, MD, blessed with one son and one daughter and two grand daughters.

KRISHNA SAPRU spent more than 30 years directing R&D; Project Management; Product & Business Development. She has technical expertise in Materials- Science & Technology; Catalysis & Electro-Catalysis; Clean energy technologies including Photovoltaics, Thermoelectrics and all areas of Hydrogen Energy Technology. Over the past Twenty-Five years her main focus has been in Hydrogen Energy Technology. Her qualities include: Development of high efficiency, non-precious metal electro-catalysts for alkaline water electrolysis and fuel-cells, metal hydrides leading to the development of the nickel/metal hydride battery technology and hydrogen storage systems, design and construction of machines for novel alloy production, high rate of writing award-winning proposals, resulting in funding, proven leadership and problem solving abilities, more than 25 issued patents and many publications and many invited and keynote presentations at international conferences.



DR. RAVI SHARMA is GM professional fellow and senior enterprise architect, systems development factory, common systems architectures group. He is recipient of Apollo Achievement Award-NASA, Distinguished Service Awards with Indian Space Research Organization (ISRO). Fellow for Life, Institution of Electronics and Telecommunications Engineers of India (IETE). Vice President: Society for Software Quality (SSQ), Washington DC chapter and Borad of Directors American Society of Engineers of Indian Origin (ASEI). He did his Postdoctoral Research at Yale University, Ph.D., from University of Florida, Master of Science from Bombay University, and Bachelor of Science, Rajasthan University.



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JAGDISH AGRAWAL is a Senior Mechanical Estimator / Project Manager Pre-Construction International (The Association for the Advancement of Cost Engineering) and also in AEE (The Association of Energy Engineers). He is working in Mechanical Systems since last 21 years. Mr. Agrawal is a Professional Engineer (State of Michigan) and has a MBA. He has worked four years on General Motors Production Facilities new and modifications, three years on Ford Motor Company Large new Body Shop, Final Assembly Plant, Visitor Center and several existing facilities, one year on Daimler-Chrysler Production Facilities Modification and Additions, ten years at Barton Malow Company, three years at Walbridge Aldinger and two years at Skanska USA. He is Senior member in AACE.



VIJAYSINH MAHIDA is President of METCO LAND S.E.A. Corporation and Schrader-Porter of MI, Inc. Vijaysinh was formerly President and Cofounder of METCO Services, Inc. He has worked for the Government of Canada Federal Department of Public Works, and was Liaison Officer for the Bombay Port Trust with the Government of India Central Water & Power Commission's Research Station at Khadakwasla. Vijay has Bachelor's and Doctor's Degrees in Civil Engineering, Bachelor's Degree in Accountancy, and Doctor of Jurisprudence Degree in Law. While in Germany, he was post-doctoral Research Fellow of the Alexander von Humboldt Foundation. He is a Professional Engineer, Land Surveyor, and a Certified Public Accountant, licensed in Michigan. Vijay has received awards for Excellence in Engineering and for Dedicated Service in 1986.

PRAFULLA (PRAF) PANDE a Business Coach through theGURUMantra, a division of RESCO Solutions. In this role he brings his 30 plus years of experience and strong business acumen to the benefit of CEO's and their leadership teams to help create Executive Systems. In coaching he utilizes his business and personal experiences together with a set of licensed methodologies, called The CEO Advantage™. Praf is committed to the improvement and rebuilding of our communities. He is associated with the National Civility Center, a non-profit organization created to help people make their communities better places to live. Praf received bachelors and masters degrees from the Indian Institute of Technology, Kanpur. He migrated to USA in 1971 when he joined the University of Florida's graduate school for a degree in Construction Management.



SHRI SINHA acquiring software developed by vendors has been a challenge to sponsoring organizations due to the unstructured chaotic processes used in developing the software. Cost and schedule overruns and unmanaged risks are rampant and software quality is questionable. The US DoD sponsored initiative of improving processes using the Software Engineering Institute, Pittsburg developed Capability Maturity Model for Software (SW-CMM) and recently updated Capability Maturity Model Integration (CMMI) provide remedies. Model users report significant improvement in quality, better cost control and an upto 7 to 1 return on investment. The model has five progressive maturity levels. Maturity Level 3 (ML-3) sets an organization on the path of continuous improvement. The model is implemented in three steps - baseline current processes, make improvements to meet the model goals, and, finally, conduct an appraisal to verify the compliance to assign a maturity rating. The rating is a widely recognized and respected indicator of software quality. SEI uses SEI-Partners to provide CMMI related services to companies interested in attaining a higher maturity level. The cost of improvement is high, running upwards of \$100,000 without the help of a SEI Partner, experienced in helping small companies.



JAY RAVINDERAN is an engineer with more than 15 years of experience in software in various sectors like Healthcare, Manufacturing and Insurance. He has been a project lead/manager for various clients for 5 plus years. Jay has been with Youngsoft, for the last 4 years. First as a Senior Project Manager and currently as Director, IT/CTO,



He has been involved in helping management in business development, strategic planning, etc. and managing the resources involved in various in-house projects.

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JIGNESH MEHTA is currently Senior Programmer Analyst and Team Leader in Fiserv - Galaxy Plus Credit Union Systems since last 5 years. He is also active team member of Technology and Architecture group. He has received Bachelor in Computer Engineering in 1992 from Gujarat University, India. He has attended several latest technology classes and conferences by Microsoft and several other major software companies. He has been awarded Three times by Fiserv - Galaxy Plus in last Five years including Service Excellence and Spirit Award.



He has around 12+ years of experience in IT industry with concentration in Computer Programming. He is also a Director with ASEI, MI Chapter, assisting in Web and online activities and also the Chairperson of Publishing committee for the 2004 Annual National Convention of ASEI. His presentation will take you to the Life cycle of Electronic Payment from the point when you initiate the Bill Payment till all the way it reaches to the original Vendor. This will also include the importance of Quality and why it is such an important aspect of every step of this process.

SHARANPAL (PAUL) SIKAND, working for Boeing Commercial Airplanes as Associate Technical Fellow at Boeing with expertise in Propulsion Systems and is recognized nationally and internationally. He is a Designated Engineering Representative (DER) of the Federal Aviation Administration (FAA) and Boeing Design Approval Engineer (DAE). Paul provides consultations to Engine Companies in the design and integration of Propulsion Systems. Paul is a Senior Integrated Product Team (IPT) Leader for Propulsion Systems, Auxiliary Power Unit, Fuel Systems and Engine Fire Protection Systems on the Boeing 717 airplane program. Paul has a MS degree in Mechanical Engineering from Stanford University and a BS in Mechanical Engineering from Purdue University.



DARSH AGGARWAL is a Boeing Associate Technical Fellow and an FAA Designated Engineering Representative. His technical expertise includes aircraft fuel, fire and environmental systems on the commercial as well as military airplanes. On his present assignment at Boeing, Darsh is providing technical support for resolving the production as well as customer issues related to C-17 aircraft systems. Darsh holds BS, ME and MS Systems Engineering degrees and is a Registered Professional Engineer in California.

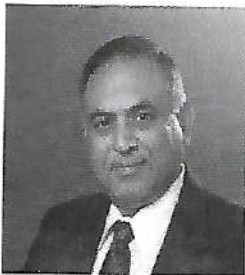


He has attended Aligarh Muslim University, SUNY Buffalo, University of Southern California and the West Coast University.

PETER IYER is a Mission Integration Engineer and is responsible for the successful integration of the Delta Launch vehicle with NASA and the USAF satellites. He serves as a member of the NASA spacecrafts mission integration group. He has served as the mission manager for the Indian communications satellite INSAT-1D launch on a Delta rocket and served on president Regan's Strategic Defence Initiative Star-war program. His affiliations in the past include Rockwell, Fluor and Parsons. He has published several technical papers and holds a patent in laser and ultrasonic intrusion systems. He is an active member of ACA, IEEE, ISA & AIAA. Peter has a B.S. in Electronics, has done advance work in electronic warfare at Northwestern University and has a BMP in Business management from UCLA.



JAYANT PATEL is a Technical Fellow at Boeing with expertise in designing and manufacturing components with rubber, elastomers, and plastics. He is recognized nationally and internationally in material technologies including composites, foams, and adhesives. Jay is an inventor and has fourteen (14) patents. He has authored numerous technical publications and has received recognition awards from Boeing, General Electric, and Industrial Tube. Jay is chairperson of SAE and SAMPE. He has a passion for mentoring younger engineers and has helped several engineers to qualify for Boeing Technical fellowship. Jay has a B.S degree in mechanical Engineering from Maharaja Sayajirao University in India and has done post graduate research at Drexel University in the U.K.



FEATURED SPEAKERS AT THE 21ST ASEI ANNUAL NATIONAL CONVENTION



SHAM HARIRAM is an Associate Technical Fellow at Boeing and an internationally recognized expert in aircraft fire protection. He has designed fire protection systems that are the industry standard. He is Federal Aviation Administration (FAA) Designated Engineering Representative and a Boeing Design Approval Engineer. Sham is an inventor with a number of patent applications. Sham has taught Systems Engineering classes at the DAC University. As a cognizant systems engineer for Engine Nacelle Systems, Fuel Systems and Fire Protection Systems, Sham has contributed to the design, development and certification of the Boeing MD-11, MD-90 and 717 airplane programs. He has degree in Chemical Engineering.

HAMMAM BATTAH, P.E. has obtained BSc. Civil Engineering, 1962; MSc. Civil Engineering, 1968, Professional Engineer of State of Michigan. Since childhood, loves research, very broad imagination and exceptionally creative mind. Used to tell time from the length of a shadow, while in the first year of school. He is currently Associate Civil Engineer – Detroit Water and Sewerage Department, and C.E.O of Solar Water Energy, His researches include Asbestos Cement Products in Iraq. 1964.; High Strength Concrete (more than 7500 psi) 1967 to 1974; Effect of curing temperatures on the gain of strength of concrete, 1974; Seasonal change in the rate of productivity of skilled laborers working outdoors construction, 1977; Rate of inflation of material cost, labor cost and the effect of rate of exchange of international currencies on the local inflation, 1975 to 1985; Solar heating panels, self design, built and operated 1981 to 1989; Population explosion, food and water supply shortages around the world, 1992; Swinging wings wind mill patent filed 1996; Wave Breaker System, patent filed 1996; Solar Distillation System, Patent holder, 2002; Solar thermal Energy Conversion System, patent filed 2003.



DINKERRAI DESAI is a *President George W. Bush appointee* to the Joint Public Advisory Committee (JPAC) of the Commission for Environmental Cooperation (CEC). The CEC is an international organization created by Canada, Mexico, and the United States under the North American Agreement on Environmental Cooperation (NAAEC). The JPAC members advise USEPA administrator, Environmental Secretary of Mexico, and Environmental Minister of Canada concerning environmental matters pertaining to NAFTA related projects. Desai has published various papers on environmental science and was the recipient of several awards from the U.S. Army. In 1990, he received a citation for Meritorious Achievement in support of Department of Defense Environmental (Dodd) Quality Programs. He holds M.S. degree in Environmental Engineering, a B.S. degree in Civil Engineering, and is a registered P. E. in the state of New Jersey. He has served as the Environmental Coordinator at Fort Monmouth, New Jersey since 1981. He is responsible for the management of programs and contractors that assure environmental compliance, support pollution prevention initiatives, renewable energy, underground storage tank management, and recently, the RCI and EULA concept. Having more than 30 years of DOD experience serving the government and industry in the fields of environmental science and engineering.



DR. FREDERICK W. ROOS (FRED) was born, raised, and educated in Michigan. He attended the University of Michigan, which granted him a Doctorate in Aerospace Engineering in 1968. Since that time, he has been conducting experimental research studies in fluid dynamics for The Boeing Company and its predecessor in St. Louis, the McDonnell Douglas Corporation, initially as a staff member of the McDonnell Douglas Research Laboratories. Fred is now a Senior Principal Technical Specialist in the Active Flow Control group of the Boeing Phantom Works organization. In that position, he is working on aerodynamic applications of active flow control techniques, and has authored more than fifty technical papers on this and other flow physics subjects. Fred also teaches as an Adjunct Professor of Mechanical and Aerospace Engineering at Washington University in St. Louis. A vocationally, Fred has been an active aviation and railroad photographer and historian, and has taught university-level aviation history courses in addition to lecturing and publishing many articles on aviation history topics. He is presently compiling an illustrated book dealing with the history of aviation in the greater St. Louis area. Fred was a co-founder of the Aeronautical History Society of St. Louis in 1970, serving as its president for 10 years. More recently, he has been involved in the St. Louis Aviation Museum project, serving on its board of directors after its founding in 1982. He has appeared in several programs on local/regional aviation history subjects. Fred resides in Frontenac, Missouri, with his wife, Kathryn, two Siamese cats, and an AKC champion Whippet.



*Best Wishes
to*

ASEI

for your

**21st Annual
National Convention**

EAT•N

12:00 - 4:00 PM	Friday, August 13, 2004		
	Cricket Tournament (Hines Park)		
	Ice Breaking Ceremony (Studio)		
6:00 - 7:00 PM	Networking/Dinner		
7:00 - 7:15 PM	Welcome/Inauguration	Perry Mehta	
7:15 - 7:35 PM	State of the Union Address	Dr. Ravi Rout	
7:35 - 8:00 PM	New Chapter Initiative	Jag Kottha	
8:00 - 8:20 PM	Key Note Speaker	Dr. K. K. Dwivedi	
8:20 - 8:30 PM	History of ASEI	Hari Bindal	
8:30 - 8:45 PM	Recognition/Awards	Dr. Ramu Ramamurthy	
8:45 - 8:55 PM	Overview of Convention	Bhushan Modi	
9:00 PM	Vote of Thanks	Bipin Mistry	
	Saturday, August 14, 2004		
8:00 AM	Registration/Breakfast		
	Inaugural Ceremony (Studio)		
9:00 - 9:05 AM	Welcome	Jag Kottha	
9:05 - 9:10 AM	Overview of Convention	Perry Mehta	
9:10 - 9:30 AM	Chief Guest	Dinkerrai Desai	
9:30 AM	Vote of Thanks	Yogi Patel	
	Technical Session A-1 (Ball Room)		
9:30 - 10:15 AM	ASEI/SAE India Strategic Partnership Initiatives	Murli Iyer	
	Indo - US Science and Technology initiatives	Dr. Kamal Kant Dwivedi	
	ASEI/CAR Program Initiatives and Progress Report	S.M. Shahed / Jag Kottha/ Sham Hariram/ Darsh Agrawal	
	Break		
10:15 - 10:30 AM	Technical Sessions		
10:30 - 11:30 AM	Technical Session B-3 (Wet Room)		Technical Session C-3 (Third Room)
Technical Session A-3 (Studio)	a. Financial Planning	Monish Verma	a. Health and Wellness
b. Retirement Planning	Ziena Hallal		Dr. Chandrakant Pujara
c. Wealth Management	Dominic Nieto		b. Worker's Compensation
d. Smart Education Tax Moves	Arati Patel		Mital Amin
11:30 - 12:15 PM	LUNCH (Ball Room)		
12:15 - 1:45 PM	Luncheon Banquet		
	Welcome	Perry Mehta	
	Overview of Evening Banquet	Mike Chaudhary	
	New Detroit Riverfront Initiatives	Pat Doherty and Dean Stermer	
	Special Guest	Robert A. Ficano, Wayne County Executive	
	Special Guest	US Senator Carl Levin	
	Introduction of the Speaker	Jag Kottha	
	Luncheon Key-Note Speaker	Dr. Beheruz N. Sethna	
	ASEI 2004 Scholarships	Dr. Ramu Ramamurthy	
	Vote of Thanks	Arvind Signal	



Saturday, August 14, 2004		
1:45 - 2:30 PM	Technical Sessions	
<u>Technical Session A-3 (Studio)</u>	<u>Technical Session B-3 (Wet Room)</u>	<u>Technical Session C-3 (Third Room)</u>
Quality Initiatives Worldwide and ISO-9000, Second and Third Party Auditing and Registration Process a. Jag Kottha b. Steve Gazy c. Chuck Howell	Advanced Simulation and Manufacturing a. K.N. Ghia b. Victor Cannaci c. Brij Seth	Mortgage Magic a. Arvind Singhal b. AAA Mortgage Company
2:30 - 2:45 PM	Break	
2:45 - 3:30 PM	Technical Sessions	
<u>Technical Session A-3 (Studio)</u>	<u>Technical Session B-3 (Wet Room)</u>	<u>Technical Session C-3 (Third Room)</u>
Six Sigma in Manufacturing and Design a. Hira Fotedar b. Alejandro Barriro c. Dan Kutz	Alternative Fuels a. Hari Bindal b. Krishna Sapru c. Ravi Sharma	Construction Management and Consulting Services a. Jagdish Agrawal b. Dr. Vijay Mahida c. Prafulla Pandey
3:30 - 4:15 PM	Technical Sessions	
<u>Technical Session A-3 (Studio)</u>	<u>Technical Session B-3 (Wet Room)</u>	<u>Technical Session C-3 (Third Room)</u>
Computers and IT Industry Quality, a. Shri Sinha b. Jay Ravindran c. Jignesh Mehta	Challenges of Flight and Boeing's contributions a. Paul Sikand b. Darsh Aggarwal c. Peter Iyer d. Jayant Patel e. Sham Hariram	Business Initiatives and Government Contracts a. Conrad Valle, SBA b. Hammam Battah, DWSD c. Dinkarrai Desai
4:30 - 5:00 PM	Yoga Clinic By Mantra Healing Arts	
5:15 - 6:15 PM	Gala Banquet	
6:15 - 6:20 PM 6:20 - 6:25 PM 6:25 - 6:35 PM 6:35 - 6:45 PM 6:45 - 6:50 PM 6:50 - 7:05 PM 7:05 - 7:25 PM 7:25 - 7:35 PM 7:35 - 7:55 PM 7:55 - 8:05 PM 8:05 - 8:15 PM 8:15 - 9:00 PM 9:00 - 9:15 PM 9:15 - 11:59 PM	Networking & Social Hour Prayer Dance Ms. Reena Valsangkar National Anthems Nithya Ramamurthy Convention Chair Perry Mehta ASEI Chair Dr. Ravi Rout Governor's Message Ramesh Verma Mayor's Address Hon. Mayor Kwame M. Kilpatrick Key-Note Speaker Dr. Frederick Roos, Boeing Corp. Chief Guest Nick Scheele, President, Ford Motor Co. Awards and Scholarships Dr. Ramu-Ramamurthy Special Guest Sonal Shah, Indi Corps Closing and Vote of Thanks Jag Kottha Sumptuous Indian Dinner Dance Performance Reena Valsangker; Local Student Group Entertainment Narendra Sheth & Group	



*Best Wishes & Congratulations to
American Society of Engineers of Indian Origin for
the great 21 year history and lot more to come...*



Thanks for
*Elevating the Spirit of Engineers
From the Great Region of India*

Multi Solutions (A Division of FutureNet Group, Inc.) is now
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- Geotechnical Engineering
- Water & Wastewater System Design
- Construction Management
- CAD/GIS Services

Technology:

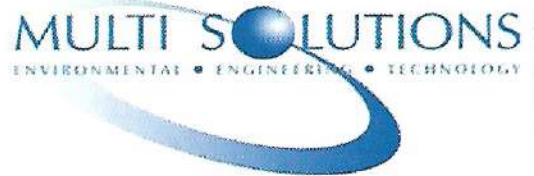
- Professional Resource Service
- Document Management
- Custom Application Development
- Web Development and Mgmt.
- Network Administration
- Web management & technology

Current Corporate & Personal Certifications:

Certified Asbestos Abatement Contractor, Lead Abatement Contractor, Small & Minority Business Enterprise, Detroit Headquarter Co., Certified professions in staff: Professional Engineers, Professional Geologists, Risk Assessors, Certified HAZ Woper technicians, Certified lead & asbestos Inspectors, supervisors, Asbestos Management planners,



Contact:
Perry Mehta
Bettye Kilpatrick



Headquarter: 13160 W. McNichols road, Detroit, Michigan 48235
Phone: 313-345-5900 * Web: www.4Multi.com
Fax: 313-345-6911 * Email: Info@4Multi.com

Overseas Offices: India

ASEI Award Winners of 2004

1. ASEI Engineer of the of the Year
Dr. Hira L. Fotedar,
Vice President, Quality, Eaton Corporation
2. ASEI Community Service Award
Sonal Shah
Associate Director of Economic and International Policy, Center for American Progress.
3. ASEI Graduate Student of The Year
Nikhil A. Shrirao
Biomedical Engineering, University of Akron, Akron, Ohio
4. ASEI Undergraduate Student of the Year
Shital A. Mehta
Computer Aided Engineering, Oakland Community College, Auburn hills, Michigan

ASEI - Recognition Award

1. ASEI Outstanding Support Award

AAA Mortgage Exchange (Now INDUS Mortgage), Michigan

Ajay Murthy CEO
and
Mohan Chandran, President,

ASEI - Lifetime Achievement Award

1. Nuruddin H. Kapadia
2. Ramesh Patel



ASEI THANKS 2004 SCHOLARSHIP SPONSORS

On behalf of the *American Society of Engineers of Indian Origin* and all those who benefit directly and indirectly from its work, we thank our scholarship sponsors, for the most generous contributions to the *ASEI Scholarship Fund*. This fund enabled ASEI to award twenty-five (25) scholarships to students - high school/ undergraduate/ graduate - in order to pursue engineering or related field. It's through generous sponsors like you that *ASEI* can continue its mission to develop and fund programs that foster student entry into and completion of engineering, scientific and technical education.

Thank you again for your generosity, which will support young talent in their educational endeavors.

Yours Sincerely,

Ramu Ramamurthy

Chairperson

ASEI-2004 Scholarship Committee

ASEI 2004 SCHOLARSHIP SPONSORS

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Jacobs Sverdrup Technology

ASEI-Michigan & ASEI-Board



ASEI 21st ANNUAL NATIONAL CONVENTION STUDENT SCHOLARSHIP WINNERS

ASEI-KALPANA CHAWLA SC HOLARSHIP WINNERS:

ASEI-Kalpana Chawla Scholarship is instituted in memory of the highly accomplished NASA astronaut, Kalpana Chawla, who was one of the 7 distinguished astronauts in the Columbia Shuttle Flight STS-107, and in recognition of her contribution in the field of aerospace engineering for the benefit of mankind.

Debashis Basu, University of Cincinnati, Cincinnati, OH

Kaushik Das, University of Cincinnati, Cincinnati, OH

ASEI GENERAL SCHOLARSHIP WINNERS:

Undergraduate Category:

Gulrez Singh Arora, University of Maryland, College Park, MD

Mitul Dadhania, University of Cincinnati, Cincinnati, OH

Keshav Deshpande, Case Western Reserve University, Cleveland, OH

Sujata Emani, Carnegie-Mellon University, Pittsburgh, PA

Hima Gandhi, University of Waterloo, Waterloo, Ontario, CANADA

Milind Gandhi, Wayne State University, Detroit, MI

Amandeep Lamba, University of Maryland, College Park, MD

Shital Mehta, Oakland Community College, Auburn Hills, MI

Asish Misra, MIT, Cambridge, MA

Jayesh Thawani, University of Michigan, Ann Arbor, MI

Graduate Category:

Dominic Alphonse, Syracuse University, Syracuse, NY

Aakash Arora, Wayne State University, Detroit, MI

Amit Kasliwal, University of Cincinnati, Cincinnati, OH

Shiraj Khan, University of South Florida, Tampa, FL

Subhashree Mishra, Santa Clara University, Santa Clara, CA

Manish Mullick, Kent State University, Kent, OH

Amita Patil, Case Western Reserve University, Cleveland, OH

Mandhapati Raju, Case Western Reserve University, Cleveland, OH

Praveen Saluja, Kent State University, Kent, OH

Harsimran Saluja, Kent State University, Kent, OH

Nikhil Shrirao, The University of Akron, OH

Devkinandan Tokekar, University of Cincinnati, Cincinnati, OH

Sunny Virmani, The University of Akron, Akron, OH

Leaders behind the ASEI...

Dr. Ravi Rout is the current Chairman of ASEI National Board has been serving ASEI National organization for last 7 years in various capacities. Dr. Rout is employed as a Senior Manager, Global Strategy Planning and Asset Management with Ford Motor Company. He wants to bring this organization to the main street through expanding the organization network through out the country and promoting educational and recognizing entrepreneurship among Asian Indians living in USA. He is serving the ASEI National organization in various capacities. Currently he is the chairman of the organization. He is currently working as Chairperson for Awards and Fundraising. He is married to Chitra and is blessed with two daughters Preeti and Swati.



Perry Mehta is the President of ASEI Michigan Chapter and a director with ASEI National Board. He is Chair Person for the 21st Annual National Convention. His vision for the 21st National Convention is to make it the biggest and the best in the history of ASEI. He is the President and CEO of FutureNet Group, which is a Detroit, based group providing professional services in Engineering and Environmental. Mr. Mehta is also director of Michigan Society of Professional Engineer – Detroit Metro Chapter and member of Engineering Society of Detroit (ESD) and Society of Automotive Engineers (SAE). Perry has played a very important role in making ASEI vibrant since the last 10 years. There has been tremendous increase in the membership at all chapters during the past 2 years. His vision for ASEI is "To Encourage every engineer from Indian Origin to be active member of ASEI and to bring this organization the cumulative voice to represent the worlds best professionals with cultural Heritage." Perry Mehta is married to Dipika and is blessed with 2 sons 11 years old Sahil & 6 years old Sagar.



Jagannadham (Jag) Kottha is the President with the ASEI National board, President ASEI Ohio Chapter and Chair person for the convention for the Technical sessions. He is the CEO of Crestbest Quality Institute. He is associated with ASEI for more than 7 years and is instrumental in adding new chapters for ASEI from various parts of USA and rejuvenates certain chapters that have been dormant for some time. Jag is negotiating a MOU with Indian Institute of Science in Bangalore through Society of Innovation and Development, for technology transfer, all across the science and technology fields.



Ramu Ramamurthy is currently the Director with ASEI National Board and chairperson of the Scholarships Committee for this convention. He has been associated with ASEI at various levels since 1990. He is also a member of SAE's Thermal Systems Management Committee, Society of Automotive Engineers and American Institute of Aeronautics and Astronautics. He is employed as a Technical Specialist, Automotive Advanced Product Development with Eaton Corporation. Ramu is responsible for receiving applications from students, reviewing them and presenting his comments and recommendations for the selection of the students for the scholarships. He has received overwhelming response for the current scholarships, and would be distributing \$ 25,000.00 as scholarships during the 21st Annual National Convention of ASEI. He is confident that the budget for scholarships would multiply every year. He is married to Usha and is proud father of 7 year daughter, Nithya.



Leaders behind the ASEI...

Yogi Patel is current Treasurer of ASEI MI Chapter and Chairperson Membership and Registrations for the convention. He is associated with the organization for the past few years and has also assisted in fundraising for various events. He is employed as Project Manager with C.C. Johnson & Malhotra, P.C. Mr. Patel has done a wonderful job in updating the membership database on almost daily basis and taking care of the finances to run the MI Chapter. He is overwhelmed with the increase in the membership. His control over the finances made MI Day a successful event, and his current budgetary control and direction has ensured the success for the 21st National Annual Convention. Yogi is married to Usha and is blessed with son Vipul and daughter Beejal.



Arvind Singhal is the Secretary of ASEI, MI Chapter and is the chairperson for the Youth and Women activities. He is employed as Project Manger with Ayres, Lewis, Norris and May, Inc. (ALNM). Arvind has been able to bring a sizable increase in the student membership. He is constantly working on providing benefits to young engineers and students in way of Technical Training, Job Placements, and Scholarships. He is married to Poonam and has two daughters Nidhi and Nishi.



Bipin Mistry is the Vice President of ASEI, Michigan Chapter and the Chairperson for Hospitality & Exhibition. He has played key role on the Fund raising committee and overlooked the arrangement for the comfort of the members of the 21st Annual ASEI Convention. He is employed as Project Manager for an Engineering Firm in Southfield, Michigan. He has also been an active committee member for past 5 years in the Gujarati Samaj of Detroit and has served the community by working with other charitable organization. He was on the Board of Trustee at The Hindu Temple, in Canton Michigan. He is also associated with Society of Automotive Engineers (SAE International) and American Welding Society (AWS). He is married to Priti and has a son named Kushal.



Bhushan Modi is the Co-Chairman of ASEI's 21st Annual National Convention. He also currently serves as a Director and chairs Membership Committee of ASEI - MI Chapter. Mr. Modi's vision is to increase ASEI-MI membership roster to 1000 members in next 3 to 5 years. He is employed with NTH Consultants, Ltd. a leading geo-environmental/infrastructure engineering and consulting firm in Midwest and Mid-Atlantic regions. Mr. Modi manages Environmental Due Diligence and Industrial Hygiene Group at NTH. He is a recognized community leader and a Past President and Chairman of Board of Gujarati Samaj of Detroit, a largest Indian cultural organization in Michigan. Mr. Modi was a founding member and also served as a President of India Earthquake Relief Organization of Michigan (IEROM), a non-profit humanitarian organization established in 2001 to assist the victims of devastating earthquake in Gujarat, India. He is happily married to Amita and has two beautiful daughters, Aditi and Avni.



Leaders behind the ASEI...

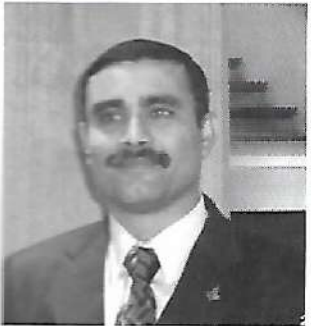
Mike (Manish) Chaudhary is the Director Media & Publicity with ASEI, MI Chapter. He is the chairperson for Media & Publicity for the 21st Annual National Convention. He is employed as Operations and Business Procurement Manager with FutureNet Group. He has taken ASEI to new heights by developing excellent relations with the local and National Media. He believes *"If people come to know about the good work of ASEI and the opportunities available for young Engineers, ASEI would become the biggest professional Non-Profit Organizations in the Nation"* ASEI has received a very good response from members and sponsors due to massive campaign. He is confident and feels *"after the National convention, ASEI will need no introduction to any media"*. ASEI is seriously working on providing more benefits to the ASEI members, in terms of special offers, networking opportunity, employment opportunities, and technical workshops. He takes the opportunity to thank all the media friends, who have supported and helped in giving a new image to ASEI. He is happily married to Darshita and is blessed with 7 year old son Yash and 2 months beautiful daughter Chaand.



Harinder Singh is the chairperson of Food and Facility. He is active member of ASEI since last 3 years and was a chairperson in the ASEI MI Day event held in August 2003. Mr. Singh has excellent relations with restaurants and caterers, and has made sure the best food in town is served to the guests. He believes good food and facility is a key to success of any event. Harinder is confident that the arrangements and carte du jour for the Convention would leave everlasting taste of the event's delicacies.



Lakhesh Khullar is the Director of E-Strategy with ASEI, MI Chapter and is the Chairperson of Web & Online Activities. He is working as a Software Developer with RedSky Technologies and is passionate about technology. He has a Master's in Information Technology and is working on latest technologies in telecommunication. He is a life member of ASEI and is committed to the development of online presence of ASEI. He was selected by the National Board to redesign ASEI's National Website www.aseio.org. The vision for new web site is integration of all ASEI Chapters, extended networking amongst members and web site usability. The web site will be instrumental in bridging the gap between the ASEI members and their need for business and professional development. Lakhesh is happily married to Leena and is blessed with daughter Manasvi and Son Sidhant.



Jignesh Mehta is currently a Director with ASEI, MI Chapter, assisting in web and online activities. He is also the Chairperson of Publishing committee for the 21st Annual National Convention. Jignesh is employed as a Senior Programmer Analyst and Team Leader in Fiserv-Galaxy Plus since last 5 years. He is the recipient of Three Awards in last Five years from Fiserv-Galaxy Plus including Service Excellence and Spirit Award. He is responsible for planning and publishing the nice, colorful and very informative souvenir for Great Gala event. Mr. Mehta is proud to be a part of the great team and is overwhelmed with the increase in sponsors and advertisers. He is also helping Lakhesh for the Web and Online activities. He is happily married to Bijal.



Leaders behind the ASEI...

Urmil Salvi is chairperson for Photography & Video for National Convention. He is always involved in community work since he was 17 years old and was youngest Leo member in India. He is member of Gujarati Samaj of Detroit and The Hindu Temple of Canton and actively involved in the development of their web site. He is employed as Electronic Publishing Specialist with multinational Siemens VDO Automotive at its North American Headquarters in Auburn Hills, MI. In his words "*ASEI is a national network of professional and socio-culture activities, which brings people of the same together*". He is married to Jigna and has two daughters, Shachi five years old and Vaishvi one year old.



JAGDISH AGRAWAL is a Senior Mechanical Estimator / Project Manager Pre-Construction Mechanical Systems since last 21 years. Mr. Agrawal is a Professional Engineer (State of Michigan) and has a MBA. He has worked four years on General Motors Production Facilities new and modifications, three years on Ford Motor Company Large new Body Shop, Final Assembly Plant, Visitor Center and several existing facilities, one year on Daimler-Chrysler Production Facilities Modification and Additions, ten years at Barton Malow Company, three years at Walbridge Aldinger and two years at Skanska USA. He is Senior member in AACE International (The Association for the Advancement of Cost Engineering) and also in AEE (The Association of Energy Engineers).



DR. SANTOKH S. LABANA has been life member of ASEI since 1983. He is retired as Manager of Polymer Science Department of Ford Research Laboratory. He has served as a Director of ASEI Michigan Chapter. Recently he has been involved in ASEI conventions as chair of Registration and Hospitality committees.



Sudhanshu Trivedi is B.E (Mechanical) and MBA in Management of Technology. He is expert in Dimensional Metrology. He has 20 years of international experience in dimensional quality, ISO 17025, trainings. Recently he has been actively involved in ASEI conventions as chair of Logistics committee. He is also helping Santokh in Registration committees as well.



New Sources of Water & Energy: Solar Desalination System

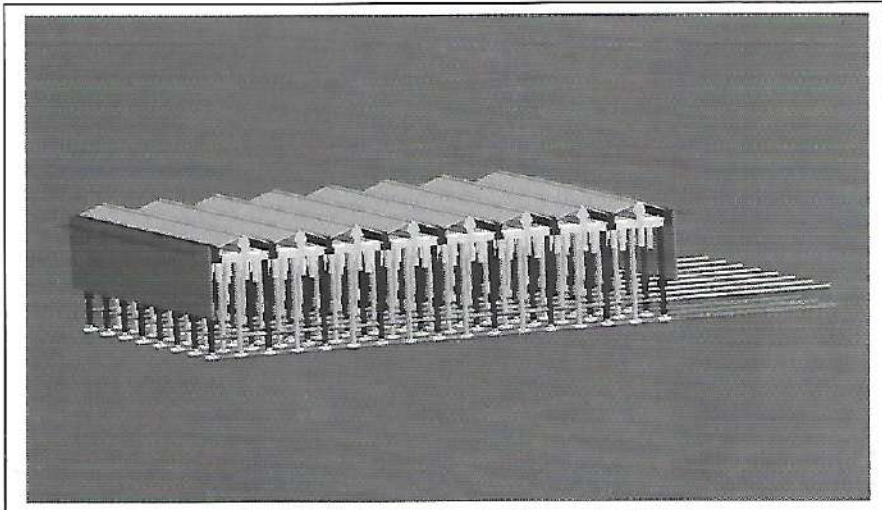
Patent No.: US 6,494,995 B1

BACKGROUND OF THE INVENTION

It is well known that there is a worldwide shortage of fresh water. One solution to this problem is large scale desalination of sea water. However, conventional desalination systems are expensive, exhibit high energy consumption, relatively inefficient and exorbitantly expensive for agricultural expansion.

Accordingly, there is a great need for a cost effective, energy efficient system for producing fresh water from sea water which is environmentally friendly, efficient to produce fresh water throughout the year and closer to coastal line.

ABSTRACT

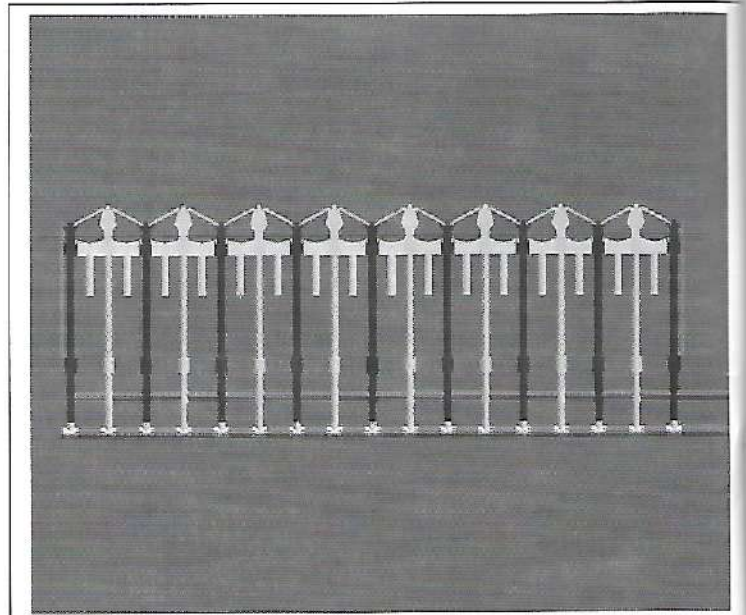


A solar cell floats over a body of saline water close to coastal line. A submerged fresh water collection system underlies the cell. A partial vacuum is created in the solar cell for drawing water vapor from the cell to the collection system. Water vapor is condensed in pipes disposed between the cell and the collection system. Heat generated by condensation of water vapor is utilized to heat the salt water, which rises upwardly to replace the salt water vaporized in the cell. In addition, the by-product of system is an energy in form of electricity.

SUMMARY OF THE INVENTION

The solar desalination system of the present invention stores solar energy in sea water in the form of heat. The system utilizes the accumulated solar generated heat as well as the heat of condensation to increase the temperature of saline water internally of perimeter insulation surrounding a plurality of integrated solar cells.

More specifically, the subject system comprises multiple solar cells, the number of which is dictated by the required output of the system. The solar cells are joined to one another and to a network of heat exchangers, vacuum lines and fresh water collection conduits disposed below the surface of a body of sea water. The bulk of water vapor condensation takes place under the surface of the body of water. The solar cells are designed so that the upper extremities thereof float above the water level while the water vapor condensation and fresh water collection portion of the system are submerged. The entire system is insulated from the adjoining body of sea water and is designed to move up or down with the tide. System position is maintained against change in the direction of water currents and/or wind by mooring cables.



Continued

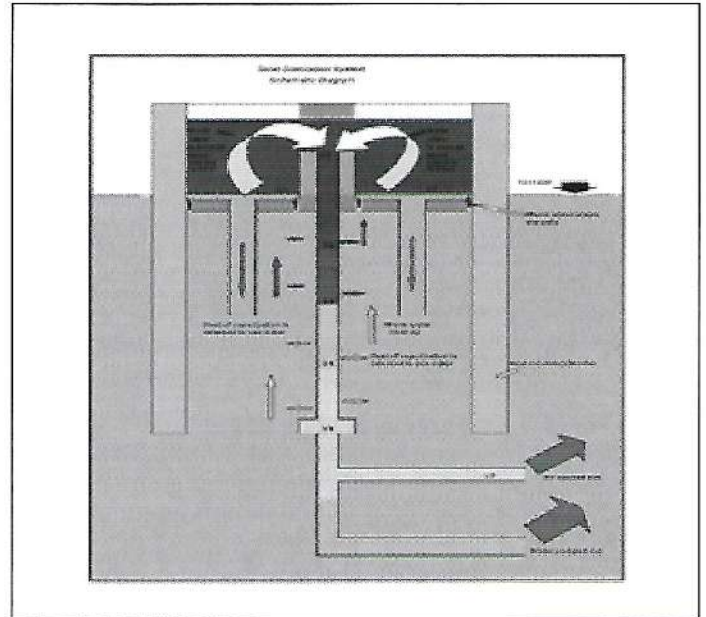


New Sources of Water & Energy: Solar Desalination System (continued . . .)

The solar system of the present invention is different than known systems in many important respects, namely; (a) the system works day and night, during cloudy days and during cold winter season without a change in the production rate of the fresh water, due to the fact that heat is stored in the system. Temperatures approaching boiling point of sea water are reached in the upper layers under the cells after four months of operation; (b) except for a means to produce a partial vacuum, there is no source of energy or equipment required to heat, circulate or condense water vapor to produce fresh water other than solar energy; and, (c) the system is designed to produce huge quantities of fresh water out of saline water. (Approximately 220 Million Gallons per Day per acre of surface area)

Potentials of the new technology.

1. Affordable fresh water out of saline water especially in the arid regions of the world (especially in India) could be made available for agricultural and industrial expansion as well as for the general public use.
2. Production of electrical power out of the stored heat, using the principles of Ocean Thermal Energy Conversion, at a cost of 5% of the available methods, will gradually reduce and eventually eliminate the dependence on fossil fuels.
3. Promoting peace among the neighboring countries by reducing the threat of hostile conflict due to water supply and demand problems.
4. Improving the health of millions of people world wide by providing fresh water.
5. Providing cheap electrical power to analyze water to produce Hydrogen, will provide a new environmentally friendly and cheap fuel. Thereafter, the gates will be wide open for the **“Era of the Hydrogen Economy”**.
6. Introduce a new hope to the souls of millions around the world that solution for the shortages of fresh water and cheap power will finally be available and achievable.
7. Help reduce the rate of global warming.



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- Grants from Government – Federal, State, Local
- Venture Capitalist to provide funds/grants
- Private Investor group for implementation of smaller plants
- Local municipalities or government to sponsor local plants
- Universities to research and implement initial working plants

Inventor: Hammam Battah, P.E., C.E.O. hammam@SolarWaterEnergy.com

Contact: Perry Mehta

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On behalf of the executive board of Indo American Chamber of Commerce – USA, it gives me immense pleasure to extend warm greetings to everyone attending American Society of Engineers of Indian Origin 21st National Annual Convention. I commend ASEI, more specifically the leadership of the Michigan Chapter, in reinvigorating interest from Indo American professionals and creating a forum for all of us to make our presence felt at the national level.

Recently IACC – USA had its first annual open house. Dignitaries and eloquent speakers like Mayor Mark A. Steenbergh, City of Warren, Andrew J. Haliw III former Chairperson of Farmington Hills Chamber of Commerce, Ed Wolking Senior Vice President, Strategic Directions, Detroit Regional Chamber of Commerce, Raymond J. Wojtowicz Treasurer of Wayne County, Bill Hartsock former Farmington City Mayor, Dan Viant, Vice President Fifth Third Bank, were present at the first annual open house of Indo American Chamber of Commerce – USA. The event drew over 90 businesses that were served gourmet Indian cuisine to cap the evening.

Indo American Chamber of Commerce – USA is a non-profit business organization representing all Asian American Indians and Asian American Indian-related business groups, and American businesses, with vested interest in furthering their business, within the Asian subcontinent. The Chamber promotes nurtures and propels economic growth by opening doors of contact, education and professional opportunities for Asian American Indians and their business partners in corporate America as well as government agencies. IACC-USA presents issues of importance not only to Asian American Indians, but also to those who want to do business with Asian American Indians in the United States and abroad. Our business colloquies will have access to programs such as Technology transfer, race relations, Asian Americans and political fundraising, how to Market to Asian Americans, teaming with strategic partners to build capacity, and building a strong business relationship between the two great democracies.

Membership benefits are worth the investment in this chamber that touts to be “your business development partner”.

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Paramjit Singh



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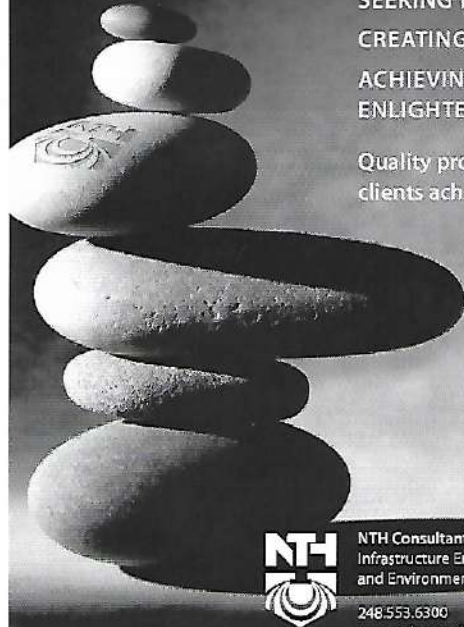
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*Thanks,
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8. Years of Experience A 0-1 B 1-5 C 5-10 D 10-20 E 20+

9. Highest Educational Qualification (Choose One)
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13. Which year did you become ASEI member? _____

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10 Educational Background Choose all that applies

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- C. Business
- D. Chemical
- E. Civil
- F. Computer Science
- G. Electrical/Electronics
- H. Industrial
- I. Mechanical
- J. Sciences
- K. Other

11 Which of the following best describes your position

- A. Consultant
- B. Engineer/Scientist
- C. Manager/Director
- D. President/VP
- E. Professor/Associate/Asst
- F. Programmer/Analyst
- G. Other Specify

12. Which of the following best describes your job function

- A. Accounting/Finance
- B. Administration/Mgmt.
- C. Consulting
- D. Education/Training
- E. Drafting/Design
- F. Engineering
- G. Manufacturing
- H. MIS/DP
- I. Purchasing
- J. Quality/Process
- K. R&D
- L. Sales/Marketing
- M. Telecommunication
- N. Other Specify



American Society of Engineers of Indian Origin

Membership Benefits Guide

Networking

ASEI offers a unique opportunity to you to make contacts and network with fellow professionals who share your interests. Networking leads to mutually beneficial opportunities and relationships.

Convention

Each year ASEI holds a nationwide annual convention. Conventions and workshops are also held locally by each chapter. Recognition is provided to outstanding people through awards.

Local Chapter Meetings

Local chapters provide members the opportunity to meet each other, network, communicate/generate new ideas, attend career development seminars, build beneficial relationships and learn from each other. Chapter meetings are geared towards the needs of the members. Periodically, plant tours, mini-conventions and development workshops are conducted. Monthly programs emphasize business/consulting topics, career development topics or immigration/interviewing/resume topics, depending on the chapter membership interests.

Committees

Committees are charged with the responsibility to accomplish specific ASEI goals which are common to all chapters. Committees can also be looked upon as the R & D arm of the chapters. Committees develop programs or workshops that can be used at the chapter level or at annual conventions. Members are encouraged to actively serve on committees.

Career Enhancement

ASEI assists each member by career planning and enhancement assistance. Two key programs are customized workshops (at local chapter meetings and at the annual convention) and mentoring programs to personally discuss career issues.

Membership Directory

The ASEI directory can help you find fellow members. Information is also available on company affiliations and expertise. The directory is updated annually. ASEI sends a free directory to all members.

Employment Directory

Referral assistance is provided to members looking for work. Employers are encouraged to recruit ASEI members through job fairs and to meet their minority hiring goals.

Publications

ASEI plans to make available publications on relevant subjects such as career development, tech transfer and immigration to its members. These publications will be developed by ASEI committees.

Corporate Membership

Corporate membership is open to companies actively engaged in engineering, architecture and related arts and sciences. Benefits include up to \$150 credit toward your first display ad in the monthly newsletter, exclusive access to a no-fee professional employment placement service, a \$100 credit toward your first display ad in the annual convention brochure, discounted rates for exhibit space at annual and local conventions, and a Corporate Member listing in the membership directory.

Technology Transfer

ASEI assists Indian and U.S. companies by bringing together technology experts in the desired industry. Lists of experts, businesses and technical articles are maintained. Technology liaison is maintained with Indian organizations and with other associations in the U.S.

Trade Assistance

ASEI plans to acquire and catalog trade laws and policies. Facilitation assistance is provided to trade delegations from Indian or to U.S. companies.

Business and Consulting

This committee assists business and consulting firms in areas of mutual interest.

Student Affairs

ASEI assists students by providing scholarships, opportunities for contact with businesses (job search), in immigration matters (workshops) and other beneficial services such as resume writing, career planning and individual guidance and mentoring.

Newsletters

The newsletter is sent to all members and is intended to be informative and educational. It communicates key events and news.

Scholarships and Awards

Student scholarships are awarded based on merit and need. ASEI recognizes outstanding individuals for their professional and entrepreneurial contributions.



ASEI THANKS COMMITTEE MEMBERS AND SUPPORTERS

On behalf of the *American Society of Engineers of Indian Origin* and all those who helped ASEI directly and indirectly to make the 21st Annual National Convention a great success, we thank our National Convention Committee Members, supporters and volunteers, for their time and effort.

Thank you again for your generosity.

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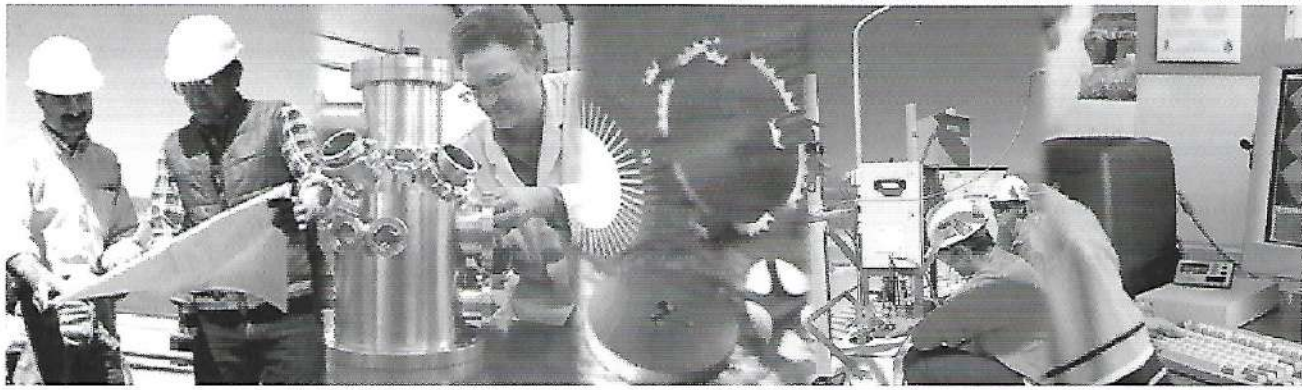
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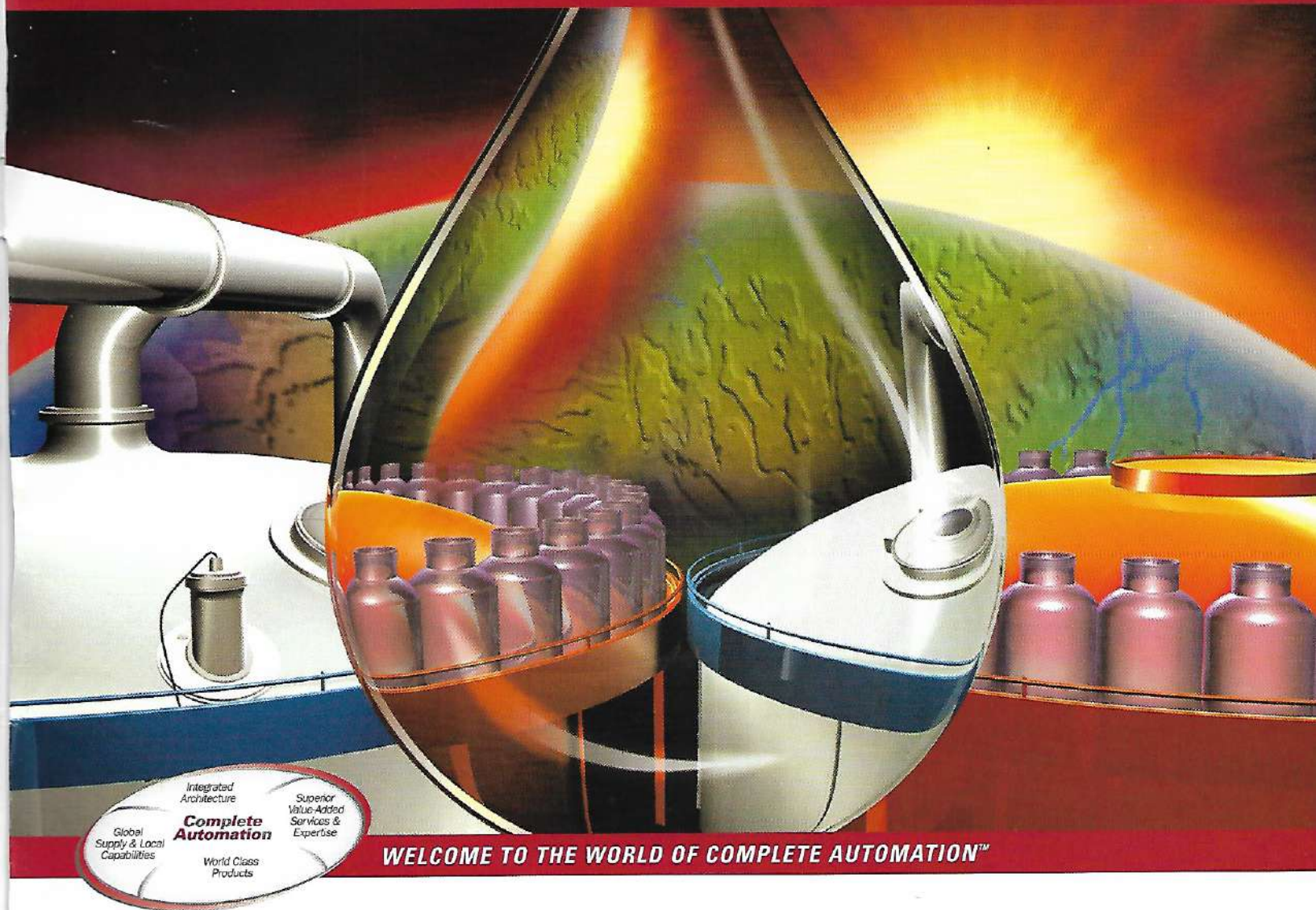
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