

ORANGE COUNTY SOLAR WINTER GALA

Pays Tribute to the Million Solar Rooftops In USA By 2010 Program

January 29, 1999

Float Entries Committee Chairman
Pasadena Tournament of Roses Association
391 South Orange Grove Boulevard
Pasadena, California 91184

Dear Chairman:

Enclosed please find the completed *Preliminary Float Sponsor Information* form for the Orange County Solar Winter Gala's float entry entitled:

The Sands of Time *A Tribute To The Million Solar Rooftops In USA By 2010 Program*

In 1997, the *Million Solar Rooftops In USA By 2010 Program* was proposed by the *Solar Energy Industries Association* and endorsed that summer by the President. In October 1997, the *Orange County Solar Winter Gala* held its first *All Schools Poster Contest* to educate the public about this important national deployment program. In December 1997, Cara Dykes submitted our first winning poster: **ENERGY FOR LIFE**. That same month, the European Commission published their *1,000,000 Photovoltaic Rooftops By 2010 Program*. With each project averaging two kilowatt peak costing \$5 a watt, this represents twenty billion dollars of photovoltaics commerce by the year 2010, globally. The *California Energy Commission's (CEC) Renewables Technology Program* began their **50% Buydown Program** for grid-connected projects in March, 1998. Over four million dollars of the ten million dollars of incentives appropriated for the first phase of this program were unreserved December 31, 1998. Public education is one of the number one hurdles to mainstream deployment of *building-integrated photovoltaics (BI-PV)* in the United States. We believe the Rose Bowl Parade provides the needed venue to share this news. To increase your decision-making criteria, I have included the following documents about our float, our work in photovoltaics and the *Million Solar Rooftops In USA By 2010 Program*:

- **Executive Summary** **page two**
- **Historic Summary** **page three**
- **Executive Committee** **page four**
- **Estimated Project Budget** **page five**
- **SWG All Schools Poster Contest News Article Fullerton Observer, February 15, 1998**

In 1998, I watched the Rose Bowl Parade from the front of the event and then followed the parade through its five-mile course. The joyous essence of the millions of people in the crowd and at home watching planted the seed to use this avenue to bring the *Million Solar Rooftops In USA By 2010 Program* to the global audience. Through this project, the Orange County Solar Winter Gala could provide an important and timely public education service for Orange County, the State, the Nation and the World. I look forward to coordinating this project with local institutions and the enthusiastic Pasadena Tournament of Roses Association.

Sincerely,

Eileen M. Smith, M.Arch.

Float Entries Committee Chairman

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MILLENNIUM ROSE BOWL PARADE 2000

The Sands of Time

A Tribute to the Million Solar Rooftops In USA By 2010 Program

Executive Summary

The Sands of Time is a Tribute to the Million Solar Rooftops In USA By 2010 Program. The float will provide an important public education focus at the Millennium Rose Bowl Parade 2000 advocating an important deployment program for clean sustainable energy production through the unique simplicity of building-integrated photovoltaics (BI-PV).

*The float will feature an hourglass in a colorful setting near a sandy beach. It will appear the sand is flowing through the hourglass to the beach with a blue ocean of photovoltaics beyond. There will be a sun spreading its bright rays over a cozy solar electric cottage surrounded by a colorful rainbow, birds, butterflies, trees, flowers and smiling members of our float riders club, **The Sun Beams**. A recently written song called *The Sands of Time* will be recorded to play during the parade along with numerous other favorite songs about the glories of our sun. The theme lines of the *Sands of Time* song are:*

“The Sands Of Time You Must Believe In Before You Can Understand, The Sands of Time They Are Forever Making Rainbows In The Sun . . .”

The Millennium New Year Rose Bowl Parade 2000 comes upon a backdrop of international concern about the environment and deregulation of the California energy industry in 1998. We are often reminded of this problem with the persistent pollution here in Southern California. The theme of time and nature in our float connects the sands of time in an hourglass with the sands of the beach that border an ocean of photovoltaics to emphasize the natural origins of the sand that make photovoltaics a number one choice for our sustainable future as the Orange County Solar Winter Gala pays Tribute to the Million Solar Rooftops In USA By 2010 Program.

Our goal is to have the electronics of the float driven by photovoltaic panels that will represent the ocean. This will need to be negotiated with the Float Entries Committee because there is a requirement that the floats are completely covered with flowers. The photovoltaics ocean of blue would need to be exposed to the sun to generate electricity. We are researching the Edison Rose Bowl Float of 1997 that used photovoltaics to provide some of the electricity for their float. The vehicle itself will be run by a fuel cell and will include a fuel cell generator to back-up the photovoltaic-generated electricity, if needed. The entire theme and construction of the float will emphasize the beauty, freshness and healthy benefits of clean sustainable electricity production through photovoltaics and fuel cell technology as our vision for the New Millennium.

Float Entries Committee Chairman

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MILLENNIUM ROSE BOWL PARADE 2000

The Sands of Time

A Tribute to the Million Solar Rooftops In USA By 2010 Program

University of California at Irvine and the Orange County Solar Winter Gala

HISTORIC SUMMARY

Recent Building-Integrated Photovoltaics (BI-PV) Deployment

Solar Development Cooperative Activities

- 1990-95 ECO TECHE featuring Science City & Solar Solution® for Kansas City's Union Station
- 1992 SDC: Solar Development Cooperative founded to assure timely mainstream deployment of BI-PV
- 4/1994 SDC: Designated marketing agent for Solar-Voltaic Dome™ patented by Irvine WWII veteran in 1986
- 1994 SDC: Exhibit for ECO TECHE project and *Solar-Voltaic Dome™* at numerous locations in Midwest
- 12/1994 SDC: ECO TECHE presented to *Kansas City Union Station Redevelopment Association & Commission*
- 1993-5 Germany & EC: *1000 PV Rooftops In German States Program* installed over 2,000 residential PV roofs
- 5/1995 SDC: *Advent of the Headrick Solar-Voltaic Dome™ Power Station - SOLTECH UPVG Conf San Antonio*
- 9/1995 SDC: *Lt. Colonel Richard T. Headrick Speaks On Solar-Voltaic Dome™ Ritz Carlton on the Plaza, KCMO*
- 9/1995 SDC: *Local Women (Architect) Proposes Solar Energy for Union Station; Wednesday Magazine (article)*
- 10/1995 SDC: *Advent of the Headrick Solar-Voltaic Dome™ Power Station - 13th EC PV Solar Energy Conference*
- 3/1996 SDC: *Advent of the Headrick Solar-Voltaic Dome™ ... - 1st Solar Electric Buildings Conference in Boston*
- 3/1996 SDC: *Advent of the Headrick Solar-Voltaic Dome™ ... - 4th Solar Architecture Conference Berlin Germany*
- 4/1996 SDC: *Advent of the Headrick Solar-Voltaic Dome™ ... - 2nd Conf on Solar Energy In Middle East Egypt*
- 6/1996 SDC: *100 Headrick Solar-Voltaic Dome™ Power Stations By 2000 Program; A Three-World Powers PV Competition of Discovery& Sharing for US-EC- Japan: To Produce 75 MWp PV Electricity Globally Presented and published in proceedings of World Renewable Energy Congress IV Denver, Colorado*
- 1996 SDC: *Millennium Dome® BI-PV Manufacturing Museum proposed for Sustainable Village® Developments*
- 1997 SDC: Began publication of BI-PV Newsletter & SDC website at: <http://www.geocities.com/Eureka/1905>
- 4/1997 SDC: *Advent of the Headrick Solar-Voltaic Dome™ ... - 59th American Power Conference Chicago, Illinois*
- 4/1997 SEIA: *Million Solar Rooftops In USA By 2010 Program* proposed by the *Solar Energy Industries Association*
- 6/1997 USA: *Million Solar Rooftops In USA ... endorsed by US President World Earth Summit +5 Denver, Colorado*
- 10/1997 SDC: *Orange County Solar Winter Gala 1st All Schools Poster Contest winner Cara Dykes: Energy for Life*
- 12/1997 EC: *1,000,000 Photovoltaic Rooftops By 2010 In EC and 3rd World Nations Program* published
- 12/1998 SDC: *Testimony before California Energy Commission: Public Education for Renewables Energy Technology*
- 2/28/98 SDC: *IEEE Conference On Green Energy in Downey, California Solar-Voltaic Dome™ model & PV materials*
- 4/1998 SDC: *Building-Integrated Photovoltaics for Primary Energy Producers In USA (BI-PV PEP USA) Workshop Paper presented and published in proceedings of American Power Conference in Chicago Illinois*
- 5/1998 SDC: May 15 letter to *California Public Utilities Commission* regarding *DG Public Education in Deregulation*
- 6/1998 SDC: *Testimony before California Energy Commission: Public Education for Renewables Energy Technology*
- 7/1998 SDC: *Millennium Dome® Manufacturing Museum at UCI Living Laboratory: DOE Grant Application*
- 8/1998 SDC: *Testimony before California Public Utilities Commission: Public Education/Choice in Deregulation*
- 9/1998 SDC: *Advanced Photovoltaics Certification University of New South Wales Australia Electrical Engineering*
- 11/1998SDC: Inquiry for Float at Rose Bowl Parade: *Tribute to Million Solar Rooftops In USA Program*
- 12/7/98 SDC: *Solicited Testimony submitted for California Energy Commission: Public Education Fund for RECE*
- 2/1998 SDC: *Be Your Own Electricity Provider With Building-Integrated Photovoltaics (BI-PV) Workshops UCI*
- 4/1998 SDC: *Business Opportunities In The Building-Integrated Photovoltaics Industry University of California Irvine*

Float Entries Committee Chairman

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MILLENNIUM ROSE BOWL PARADE 2000

The Sands of Time

A Tribute to the Million Solar Rooftops In USA By 2010 Program

Executive Committee

1. Executive Director: Eileen M. Smith, M.Arch.
Ten Hours Week Executive Duties and Ten Hours Week Publications Duties
 - a. Primary SWG Float Association Contact to Pasadena Tournament of Roses
 - b. Primary Contact to Professional Float Builders
 - c. Primary Coordinator for Parade Week Activities
 - d. Responsible for overall design, development and management of the project
 - e. Oversee Fund Raising, Public Relations Float Construction & Accounting
 - f. Schedule minimum of five open office hours a week at Headquarters
 - g. Hold Monthly Executive Committee Meetings
 - h. Participate in Subcommittee Meetings and Student Organization Activities
 - i. Publish *SWG Millennium Rose Bowl Parade 2000 Float Association Newsletter*
 - j. Coordinate Project Activities the Week of the Rose Bowl Parade

2. Project Development & Public Relations Committee Chair - Ten Hours Week Average - TBA
 - a. Secondary *SWG Float Association Contact* to Pasadena Tournament of Roses
 - b. Coordinate Facilitation of Assigned Committee Activities with Director
 - c. Facilitate Fundraising, Purchasing and Accounting for Project
 - d. Facilitate Public Relations, Press Kits & Project Volunteers
 - e. Facilitate Special Projects with the *Center for Educational Partnership*
 - f. Shuttles for Orange County Solar Winter Gala Rose Bowl Parade Cheering Section
 - g. Parade Week Facilitate Public Education Activities including PV exhibit at float after parade

3. Float Implementation Committee Chair - Ten Hours Week Average - TBA
 - a. Secondary *SWG Float Association Contact* to Professional Float Builders
 - b. Coordinate Facilitation of Assigned Committee Activities with Director
 - c. Facilitate Float Design Drawings and Model
 - d. Float Engineering Drawings to Include Electrical Systems, Floral Design & Mobility Issues
 - e. Facilitate Floral Design to Include Planning, Ordering, Delivery Storage & Floral Application
 - f. Float Construction, Transportation & Storage
 - g. Parade Week Facilitate Placement of Float Drivers, Technicians, Riders, Music & Audience Liaisons

4. Administrative Assistant - Ten Hours Week Average - TBA
 - a. Work w/Executive Committee To Plan & Facilitate Student Involvement In Project
 - b. Help with *SWG Millennium Rose Bowl Parade 2000 Float Association Newsletter*
 - c. Solicit and Coordinate Activities With Student Groups To Help Them Get Involved With Project
 - d. Announce Special Projects being initiated with the *Center for Educational Partnership*

Float Entries Committee Chairman

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Estimated Project Budget

Executive Director's Annual Fee: \$37,500

5 hours week 50 weeks @ \$50 hour Organizational Fund Raising \$12,500

5 hours week 50 weeks @ \$50 hour Contribution of Executive Time \$12,500

5 hours week 50 weeks @ \$25 hour Organizational Fund Raising \$ 6,250

5 hours week 50 weeks @ \$25 hour Contribution of Publications \$ 6,250

Pasadena Tournament of Roses Association

Float Participation Fee \$ 2,500

Millennium Rose Bowl 2000 Float Association Headquarters: \$10,000

50% In-kind Donations & Contributions \$ 5,000

50% In-kind Donations & Contributions \$ 5,000

Office, desk/table/chairs 1-3 phones

Computer/Internet/Printer/Fax/Copier

Association Stationary and Business Cards

Monthly Newsletter Printing Costs

Office Supplies

Project Development & Public Relations Committee \$50,000

Float Implementation Committee \$90,000

Week of Rose Bowl Parade Activities \$10,000

Special Events Activities

Transportation & Storage of Float

Technician Staff & Volunteer Coordinator Fees

Shuttles For Transportation of Cheering Section

Public Relations Materials/PV Exhibit During and After Parade

Total Estimated Costs for SWG Millennium Rose Bowl Parade 2000 Float \$200,000