

ICSC 5 Conference Agenda

Sunday, 16 Nov 2008

1800-2100 Registration and Welcome Reception *Springs Patio* - Presentations downloaded from CD ROMS or memory stick.

Monday, 17 Nov 2008

0700-0800 Registration and Continental Breakfast *Springs Ballroom A-F*

0800-0810 Welcome—R McConnell, M Symko-Davies

0810-0840 Craig Cornelius, Hudson Clean Energy Partners

0840-0940 CPV Market Entry: Industry Perspective--Moderator: R. McConnell
Questions for the following 7-minute presentations: Why should anyone buy CPV technologies rather than crystalline silicon or thin film PV? What differentiates CPV from conventional flat panel PV?

Amonix (Garboushian)
Concentrix (Gombert)
ENTECH/WorldWater
GreenVolts (Cart)
Isofoton
Sol3g (Ricard Pardell)
Solar Systems (Verlinden)
SolFocus (Steve Horne)

0940-1010 Audience Discussion with industry presenters

1010-1030 Coffee Break *Salon F Foyer*

1030-1130 Solar Cell Suppliers: Industry Perspective--Moderator: S. Kurtz
Questions for the following 10-minute presentations: What cost and efficiency targets should CPV companies plan for? How can CPV companies ensure adequate cell supply?

Arima (PK Chiang)
Azur Systems (Gerhard.strobl@azurspace.com)
Cyrium (Simon Fafard or Steve Eglash)
EMCORE (David Danzilio)
Spectrolab (Russ Jones)
VPEC

1130-1200 Audience Discussion with Industry Presenters

1200-1330 Conference Luncheon Speaker: TBD *Springs Ballroom A-F* “Policy for Large Scale Solar Power Plants”

1330-1415 CPV Market Entry: Investor Perspective – Moderator: M. Symko-Davies
Question for the following presentations.: What are the issues that CPV must face in competing with all other renewable energy technologies?

Craig Cornelius

Klaus Toennesmann, Good Energies

TBD

1415-1500 Audience roundtable discussion of industry and investor representatives—
Moderators: M Symko-Davies and R. McConnell

1500-1520 Coffee Break *Salon F Foyer*

1520-1640 Concentrator Solar Cells—Session Chair: Dan Friedman, Andreas Bett

John Geisz, “Optimized Triple-junction Solar Cells Using Inverted Metamorphic Approach” NREL, USA

R. R. King, P. Pien, R. Jones, A. Boca, K. M. Edmondson, D. C. Law, C. M. Fetzer, W. Hong, D. Bhusari, P. Hebert, M. Lau, R. Brandt, J. Ermer, and N. H. Karam, “High-Efficiency Terrestrial Concentrator Multijunction Solar Cells – Research to Manufacturing at Spectrolab”, Spectrolab, USA

Daniel Aiken, Brad Clevenger, Frederick Newman, Paul Sharps, and Jody Wood, “A Status Report and Roadmap for III-V Multijunction Solar Cell Development and High Volume Manufacturing at Emcore”, Emcore, USA

Carlos Algora, Ignacio Rey-Stolle, Ivan García, Beatriz Galiana, Pilar Espinet, Mathieu Baudrit and Enrique Barrigon, "A dual junction solar cell with an efficiency of 32.6% at 1000 suns and 31.0% at 3000 suns", Instituto de Energia Solar, Spain

1800-1815 Load buses and leave for Conference Banquet

1800-2300 Conference Banquet (Air Museum in Palm Springs) — Banquet sponsored by
listed Conference sponsors

Tuesday, 18 Nov 2008

0830-0950 CPV System Optimization for Performance—Session Chairs: Richard King,
Pierre Verlinden *Springs Ballroom A-F*

Andreas Bett, Frank Dimroth, Wolfgang Guter, Joachim Jaus, Peter Nitz, Eduard Olvia, Gerhard Peharz, Thorsten Schult, Gerald Siefer, “Raising the Efficiency of FLATCON Modules”, Fraunhofer-Institute für Solar Energie Systeme (ISE), Germany

Damien Buie, Rick Hoffman, James Foresi, and David Corelis, "A Pathway to Achieving Greater Than 30% System Efficiency in Concentrating Photovoltaics by 2010", EMCORE Solar Power, USA

Kenji Araki, "Design of 30 kW CPV Power Plant Optimized to Japanese Environment", Daido Steel, Japan

Bob Cart, "Breaking the Barriers to Concentrating Photovoltaic Performance", GreenVolts, USA

0950-1020 Coffee Break *Salon F Foyer*

1020-1140 Field Experience—Session Chairs: Gabriel Sala, Warren Nishikawa

Francisca "Paqui" Rubio, "ISFOC Experiences During the CPV Systems Installations", ISFOC, Spain

Andreas Gombert^a, Alexander Hakenjos^a, Inka Heile^a, Johannes Wüllner^a, Tobias Gerstmaier^a, Sascha van Riesen^a, David Silva^b, Alvaro Payán^b, Stefan Mau^b, "Monitoring Results of a 5,6 kW Concentrix CPV System and of a System for R&D Purposes in Seville", ^aConcentrix Solar GmbH, ^bAbengoa Solar NT, Spain

J. B. Lasich, P.J. Verlinden, A. Lewandowski, D. Edwards, H. Kendall, I. Thomas, S. Carter, P. Wakeman, I. Varfolomeev, M. Wright, and R. Metzke "Very Large Scale Concentrator Photovoltaic Systems Using Multijunction III-V Solar Cells", Solar Systems Pty Ltd, Australia

V. Díaz, R. Hernández, J. Arroyo, J. L. Zurita, and A. Gómez, "ISOFOTON's First 400 kW CPV Plant at ISFOC Project:" System Performance and Future Plants, ISOFOTON SA, Spain

1140-1200 Cheryl Kennedy – "Reliability testing of optical materials," NREL, USA

1200-1330 Lunch *The Grove*

1330-1510 Cell Assemblies and Reliability Testing/Standards—Session Chairs: Geoff Kinsey, Dan Aiken

Andrew Yen-Chang Tzeng, Mike Chung-I Huang, and Knox Chun-Jung Lin, "Overview of Arima EcoEnergy Concentrator Cells Assemblies and Reliability Testing Issues" Arima EcoEnergy, Taiwan

Alfred Dehmel, Dr.-Ing. Jürgen Schulz-Harder, "What CPV-Packaging Can Learn From Power Electronics", Electrovac Curamik GmbH, Germany

J. R. González^a, C. Algora^b, M. Vázquez^c, N. Nuñez^c, and I. Rey-Stolle^b, "Strategy for Assessing the Reliability of III-V Concentrator Solar Cells: Working Plan Review and First Results", ^aInstituto Nacional de Técnica Aeroespacial (INTA)

– Spasolab, ^bInstituto de Energía Solar – Universidad Politécnica de Madrid,
^cSección Departamental de Electrónica Física – EUIT de Telecomunicación,
Universidad Politécnica de Madrid, Spain

Mark Spencer and Marc Finot, “Field Testing for Reliability Assessment of New CPV”, SolFocus

Bill Gross, William Bottenberg, Theodore Brenner, Roberta Cerda, Derek Jackson, Jeffrey Lamb, Ben Pelletier, Matthew Schneider, Kenny Villegas, and Mark Henderson, “UL Listing of the Sunflower Rooftop Photovoltaic Concentrator System”, Energy Innovations

1510-1540 Coffee Break *Salon F Foyer*

1540-1700 Systems and Energy Ratings—Session Chairs: Kenji Araki, Carlos Algora

P. J. Verlinden and J. B. Lasich, “Energy Rating for CPV Systems Using Multijunction III-V Solar Cells”, Solar Systems Pty Ltd, Australia

Alberto Rodriguez and Ignasi Sospedra, “Performance Ratio of a Triple Junction Cells PV High Concentration System”, Sol3g, Spain

M. Martínez, D. Sánchez, R. Coronado, F. Rubio, J.L. Pachón, P. Banda, “CPV Systems Rating, Results and Lessons Learned at ISFOC”, ISFOC, Spain

Warren Nishikawa, Steve Horne, Evan Green, Sam Cowley, “Energy Production of CPV Power Plants at ISFOC” SolFocus Inc., USA

1900-2200 Poster Event/ Buffet Reception *Springs Ballroom A-F* (See poster list below)

Wednesday, 19 Nov 2008

0800-0900 Low Concentration Approaches - Session Chair: Mark O'Neill *The Pavilion*

G. Sala and I. Anton, “Experience With European Low-Concentration PV systems: From Euclides I to first industrial systems”, Instituto de Energía Solar, Universidad Politécnica de Madrid (ES-DEF), Spain

Hans-Dieter Mohring, “Low-X CPV Systems – Status and Perspectives”, ZSW, Germany

Mark O'Neill, “Fifth-Generation 20X Linear Fresnel Lens/Silicon Cell Concentrator Technology”, ENTECH, Inc., USA

0900-1000 Systems—Session Chairs: Bob Cart, Andreas Gombert

Raed Sherif “What CPV Experts Might Like to Know About CSP”, eSolar, Inc.

Ted Stern, “Lessons Learned from Space CPV”, SolEnergy, USA

V. D. Rumyantsev, “An Overview of Russian Activities in CPV” Ioffe Physico-Technical Institute, Russia

1000-1020 Coffee Break *The Pavilion*

1020-1140 Trackers, System control, and Indoor measurements - Session Chairs: Teresa Trowbridge, Francisca Rubio

Max Davis^a, Tyler Williams^a, María Martínez^b, Rafael Coronado^b, and Daniel Sánchez^b, “Understanding Tracker Accuracy and its Effects on CPV”,
^aGreenMountain Engineering, USA, ^bISFOC, Spain

Alexander Hakenjos^a and Ralf Uhlig^b, “Trackers for CPV Applications – A New Approach”, ^aConcentrix Solar GmbH, Germany, ^bGerman Aerospace Center (DLR), Germany

Olivier Stalter and Bruno Berger, “Tracking Inverter’ for Large Scale CPV Power Plants”, Fraunhofer Institute for Solar Energy Systems (ISE), Germany

Hans Philipp Annen, Ralf Leutz, and Ling Fu, “Umbrella Shaped Tailored Free-Form Optics for a Solar Simulator”, Concentrator Optics GmbH, Germany

1200 – 1330 Lunch *The Pavilion*

1330 – 1500 Conference Transition Session – Sarah Kurtz, Robert McConnell

1330 – 1350 Sarah Kurtz and Robert McConnell, Conference Closing Comments, Planning for ICSC6

1350 –1410 Lewis Fraas, Chair TPV8 Meeting, “High Power Density PV”, JX Crystals, USA

1410 – 1430 Robert McConnell, Convener IEC TC82 WG-7 Meeting, “Update on CPV Standards Development”, Amonix, USA

1430 – 1500 Coffee Break *The Pavilion*

1500 – 1800 WG7 Meeting (see below)

IEC -WG7 Standard Workshop

Wednesday, 19 Nov 2008

15:00 – 15:30 Roundtable introductions *The Pavilion*

15:30 - 16:30 Open discussion of issues with IEC 62108 – McConnell/Anton

16:30 – 17:00 Use of WG7 wikiblog – Max Davis

17:00 – 17:30 Formal NWIP process for new standards - McConnell

17:30 Adjourn for dinner

Thursday, 20 Nov 2008

0800 – 0900 NWIP Work Groups – Group Leaders *Salons 11-12*

0900 – 1000 Power Rating Draft – Sarah Kurtz

1000 – 1020 Coffee Break *Salons 11-12*

1020 – 1140 Power Rating Draft – Sarah Kurtz

1140 – 1300 Lunch *Salons 11-14*

1300 – 1400 Energy Rating Draft – Paqui Rubio

1400 – 1420 Coffee Break *Salons 11-12*

1420 – 1600 Energy Rating Draft – Paqui Rubio

1600 – 1730 Tracker Standard – Bob MacDonald or Teresa Trowbridge

1730 – 1800 Safety Standard – Bill Shisler

1800 – 1900 Action Items and proposal for next meeting. (March 9-10, Darmstadt)

TPV-8 Conference Agenda

Thursday, 20 Nov 2008

9:00 AM Welcome Comments *Salons 13-14* – TPV and CPV and High Power Density Photovoltaics Conference Chairman – Dr. Lewis Fraas

Morning Session

9:20 AM until Noon COMPONENT DEVELOPMENT

9:20 AM Thermophotovoltaic Research at Sandia National Laboratories

J. E. Strauch¹, G. R. Girard¹, J. G. Cederberg¹, S. R. Lee¹, G. A. Ten Eyck¹,
Susan Murray², Tom Rahmlow³

¹Sandia National Laboratories, Albuquerque, NM, ²General Atomics, San Diego,
CA, ³Rugate Technologies, Inc., Oxford CT.

9:40 AM until 10:40 AM TPV CELLS

9:40 AM Cost-efficient thermophotovoltaic cells based on germanium substrates

J. van der Heide, IMEC vzw, Belgium, N. Posthuma, IMEC vzw, Belgium G.
Flamand, IMEC vzw, Belgium, W. Geens, UMICORE, Belgium, J. Poortmans,
IMEC vzw, Belgium

10:00 AM Diffusion technology for high-performance InGaAs TPV cells

L.B. Karlina, V.S.Kalinovsky, M.M. Kulagina, N.Kh. Timoshina, A.S. Vlasov.,
V.D.Rumyantsev. Ioffe Physical-Technical Institute, 26 Polytechnicheskaya,
St.-Petersburg, 194021, Russia

10:20 AM The development and testing of inverted 0.6-eV InGaAs thermophotovoltaic monolithic interconnected modules on InP using strain-relaxed InPAs buffers

J. E. Strauch¹, G. R. Girard¹, J. G. Cederberg¹, S. R. Lee¹, G. A. Ten Eyck¹,
Susan Murray²,

¹Sandia National Laboratories, Albuquerque, NM, ²General Atomics, San Diego,
CA.

10:40 AM to 11:00 AM Coffee Break *Salons 13-14*

11:00 AM PHOTOVOLTAIC CONVERTER ARRAY

Modeling of Low Bandgap Thermophotovoltaic Diodes for Design of Portable
Power Systems

Walker Chan¹, Ivan Celanovic², John Kassakian², John Joannopoulos², Robin
Huang³, Christine Wang³

¹Massachusetts Institute of Technology; ²Massachusetts Institute of Technology;
³Lincoln Laboratory

11:20 AM IR EMITTERS

Numerical Simulation on EM Wave in Optical Fiber Probe for detecting
Spectral-Controlled Evanescent Wave on Emitters

Daisuke Hirashima and Katsunori Hanamura Research Center for Carbon Recycling and Energy, Tokyo Institute of Technology

11:40 AM to 1:00 PM Lunch Salons 11-14

Afternoon Session

1:00 PM until 3:00 PM APPLICATIONS

1:00 PM until 2:00 PM SPACE

1:00 PM Emitter Evaporation Study in Space TPV Systems

Dave Scheiman¹, Dave Wolford², Donald Chubb³, Eric Clark², and Jack Colon⁴
¹Arctic Slope Research Corp., NASA GRC, ²NASA GRC ³NASA GRC
Distinguished Research Associate, ⁴Sierra Lobo

1:20 PM Emitter function and emittance measurement relevant to a 250 Wt Class RTPV Generator for Space Exploration

Dave Wolford¹, Donald Chubb², Eric Clark¹, Anna Maria Pal¹, Dave Scheiman³
and Jack Colon⁴
³Arctic Slope Research Corp., NASA GRC, ¹NASA GRC, ²NASA GRC
Distinguished Research Associate, ⁴Sierra Lobo

1:40 PM Developments in Radioisotope Thermophotovoltaic Power Systems

Richard Kaszeta, Patrick Magari, Roger Hill, and Dimitri Deserranno Create, Inc.
Hanover, New Hampshire; David Wolford, and Eric Clark, NASA Glenn Research
Center, Cleveland, Ohio; Thomas Rahmlow, Rugate Technologies, Inc, Oxford, CT

2:00 PM until 3:00 PM COMBINED HEAT AND POWER

2:00 PM Demonstration of a TPV integrated boiler concept

K. Qiu, M. Douglas, S. Hayden
CANMET Energy Technology Centre-Ottawa, Natural Resources Canada

2:20 PM A Compact ThermoPhotoVoltaic (TPV) Generator Using Boiling Liquid Cell Cooling

Lewis M. Fraas, JX Crystals Inc

2:40 PM until 3:00 PM Coffee Break Salons 13-14

3:00 PM until 4:00 PM SOLAR & OTHER

3:00 PM	Modelling Solar Thermophotovoltaic systems for loss analysis and efficiency prediction of real systems
	Alejandro Datas ^{1*} , Diego Martín ^{1,2} and Carlos Algora ¹ ¹ Instituto de Energía Solar, Universidad Politécnica de Madrid., Madrid, Spain. ² Centro de Estudios Superiores "Felipe II". Universidad Complutense de Madrid, Aranjuez, Spain
3:20 PM	Hybrid solar/fuel TPV generator
	V.M. Andreev, V.P. Khvostikov*, A.S. Vlasov, O.A. Khvostikova, S.V. Sorokina, N.S. Potapovich, E.P. Rakova, V.D. Rummyantsev; Ioffe Physical-Technical Institute, St. Petersburg, Russia
3:40 PM	GaSb Cells and IR Power Beaming
	Lewis M. Fraas and Han Xiang Huang, JX Crystals Inc
4:00 PM until 4:20 PM	SUMMARY AND DISCUSSION / CLOSING REMARKS

NOTE: Room Locations Subject to change

POSTERS

Posters will be presented at Poster Event/ Buffet Reception 1900-2200 on Tuesday, 18 Nov 2008 (Late News submission have not yet been summarized here):

- 1 D. A. Adkins, "The Verification and Validation of Computational Modelling of CPV Systems", Institute of Sustainable Energy Technologies, the University of Nottingham, United Kingdom
- 2 E. Agudo¹, A. Mateos¹, C. Domínguez², I. Antón², G. Sala², "First Commercial Single and Multijunction Cell CPV Module Tester" ¹Soldaduras Avanzadas. ²Instituto de Energía Solar - Universidad Politécnica de Madrid, Spain.
- 3 Roger Angel, Warren Davison and Blain Olbert,, "CPV at the Level of Many GW", University of Arizona, USA
- 4 Kenji Araki, "CPV Design in Different Types of Environment", Daido Steel, Japan
- 5 A. Boca, K. Edmondson, and R. King, "Concentrator Solar Cell Performance Enhancement by Way of Prismatic Covers", Spectrolab, Inc., USA
- 6 Nick Bosco and Sarah Kurtz, "Reliability Testing the Die Attachment of CPV Assemblies," National Renewable Energy Laboratory, USA

- 7 R. Coronado, F. Rubio, M. Martínez, J. Bono, L.M. Burgos, and P. Banda,
8 “Evaluation of the Solar Resource and Energy Production Model”, ISFOC, Spain
9 Giovanni Flamand, Yves Mols, Johan van der Heide, Lu Zhao, and Jef Poortmans,
10 “4-terminal Mechanical Photovoltaic Stacks for Concentrator Applications”, IMEC
11 vzw, Belgium
- 9 L. Fraas^a, J. Avery^a, L. Minkin^a, C. Maxey^b, A. Gehl^b, R. Hurt^c, and R. Boehm^c,
10 “Performance of 3-Sun Mirror Modules on a Sun Tracking Carousel”, ^aJX Crystals,
11 Inc., ^bOak Ridge National Laboratory, ^cUniversity of Nevada, Las Vegas, USA
- 10 Lewis M. Fraas and James E. Avery, “Comparison of Economics for Planar PV and
11 Concentrated Solar PV”, JX Crystals, USA
- 11 Michael Gedeon^a, Richard Koba^b and David Jech^b, Lee Vandermark^c and John
12 Scheatzle^c, “A Comparison of Substrate Materials for High Concentration CPV
13 Submounts”, ^aBrush Wellman Alloy Products, ^bZentrix Technologies, ^cBrush
14 Ceramic Products, USA
- 12 Emilio Gómez-González^a, Rafael Coronado-Santos^b, Manuel A. Perales-Esteve^c,
13 Daniel Ramirez-Martínez^a, Javier Márquez-Rivas^d, “Optical Properties of a Novel
14 Concentrator of Very High CR and Acceptance Angle Combining a Logarithmic
15 Tir-Lens and Spherical Lenses, ^aESI-University of Seville, ^bISFOC, ^cESI University
16 of Seville, ^dUnit of Pediatric Neurosurgery, University Hospitals, Spain
- 13 Andy Hartzell, "Factors Influencing the Optical Efficiency of Fresnel Lens
14 Concentrators", 3M, USA
- 14 Maikel Hernández^a, Aleksandra Cvetkovic^b, Pablo Benítez^{a,b}, and Juan C.
15 Miñano^{a,b}, “High-performance Kohler Concentrators With Uniform Irradiance on
16 Solar Cell”, ^aLight Prescriptions Innovators Europe, ^bUniversidad Politécnica de
17 Madrid (UPM)-Cedint, Spain
- 15 Hwen-Fen Hong, Yi-Ping Liang, Zun-Hao Shih, Hwa-Yuh, and Cherng-Tsong Kuo,
16 “Concentrator Solar Receiver Reliability Verify by IEC62108 Standard”, Institute of
17 Nuclear Energy Research, Taiwan
- 16 S.C. Lee, S.J. Hon and Owen Lo, "Reliability of High Power LEDs and Suggestions
17 on III-V Multi Junction Concentration Solar Cells", EPISTAR corporation, Taiwan
- 17 Ralf Leutz, Ling Fu, Philipp Annen, “ Efficiency and Concentration Ratio of Fresnel
18 Lens and Secondary Optical Train for Concentrating Photovoltaics”, Concentrator
19 Optics GmbH, Germany
- 18 Ryan J. Linderman, Aaron Hartford, Ben Pelletier, and Badier Velji, “Experimental
19 Study of Thermal Cross-Talk and Wind Effects in Solar Concentrator Cell Arrays”,
Energy Innovations, USA
- 19 Chih-Chen Ma^a, Shang-Lee Chyou^a, I-Tao Lung^a, Cherng-Tsong Kuo^a, and Hung-
Ju Lin^b, “An Advanced Central Control System of HCPV System”, ^aInstitute of
Nuclear Energy Research Nuclear Science & Technology, ^bNuclear Science &
Technology Association, Taiwan Warren Nishikawa, Mark Spencer, and Evan
Green, “Performance Qualification and Safety Certification of CPV Panels”,
SolFocus, Inc., USA

- 20 Warren Nishikawa, Mark Spencer, and Evan Green, "Performance Qualification and Safety Certification of CPV Panels", SolFocus, Inc., USA
- 21 Warren Nishikawa and Steve Horne, "LCOE Cost Roadmap for Concentrating Photovoltaics (CPV)", SolFocus, Inc., USA
- 22 A. Martínez de Olcoz, T. Gómez and J. R. González, "INTA-SPASOLAB: towards the accreditation in IEC 62108", Instituto Nacional de Técnica Aeroespacial – SPASOLAB, Spain
- 23 Gerhard Peharz, Juan Pablo Ferrer Rodriguez, Gerald Siefer, Andreas W. Bett, "Indoor Characterization of CPV Modules at Fraunhofer ISE", Fraunhofer ISE, Germany
- 24 Adam Plesniak^a, Russ Jones^b, Joel Schwartz^a, Guy Martins^a, John Hall^a, David Whelan^a, Pablo Benítez^{c,d}, Juan C. Miñano^{c,d}, Aleksandra Cvetković^d, "Successful Rapid Development of a High Performance Concentrating Photovoltaic System for Utility Scale Power Generation", ^aThe Boeing Company, USA; ^bSpectrolab, Inc., USA; ^cLPI Europe, Spain; ^dCEDINT Universidad Politécnica de Madrid (UPM), Spain
- 25 Marta Victoria Pérez, C. Domínguez, I. Antón, and G. Sala, "Fluidreflex: High Concentration Reflexive System with Fluid Dielectric", Instituto de Energía Solar, Universidad Politécnica de Madrid, Spain
- 26 Robert M. Pricone, "Continuous Process Technology to Manufacture Solar Concentrators in High Volume at Low Cost", 10x Technology, LLC, USA
- 27 E. Rodríguez, J. Miguel-Sánchez, M. Moreno, J. López-Zurita, V. Díaz, "A New Automatic Testing and Classification Tool for Concentrator Solar Cells – SAMCEL", ISOFOTON, Spain
- 28 F. Rasello^a, M. R. Congia^a, S. Padovani^b, S. Sinesi^b, G. Rotaris^b, G. Georgiou^c, M. Northon^c, V. Poulek^d, F. Romanato^e, A. Martucci^e, J. Ulbikas^f, D. Janusonis^f "ORION - Optimization of Si solar cells, plastic materials and technologies for the development of more efficient concentrator photovoltaic systems", ^aINTEGRA renewable energies S.r.l., Italy, ^bCentro Ricerche Plast-Optica S.p.A., Italy, ^cPV Technology Department of Electrical and Computer Engineering - University of Cyprus, Cyprus, ^dPoulek Solar, Czech Republic, ^eLaboratorio Nazionale TASC-INFM, CNR, Italy, ^fUAB "Modernios E- Technologijos" Jsc, LITHUANIA
- 29 O. de la Rubia, D. Sánchez, M^a L. García, J.L. Pachón and P. Banda, "ISFOC Field Experience: Acceptance Procedure Applied to CPV Plants" Instituto de Sistemas Fotovoltaicos de Concentracion (ISFOC), Spain.
- 30 J. E. Strauch¹, G. R. Girard¹, J. G. Cederberg¹, S. R. Lee¹, G. A. Ten Eyck¹, Susan Murray², "The development and testing of inverted 0.6-eV InGaAs TPV monolithic interconnected modules on InP using strain-relaxed InPAs buffers", ¹Sandia National Laboratories, ²General Atomics, USA
- 31 J. E. Strauch¹, G. R. Girard¹, J. G. Cederberg¹, S. R. Lee¹, G. A. Ten Eyck¹, Susan Murray², Tom Rahmlow³ "Thermophotovoltaic Research at Sandia National Laboratories" ¹Sandia National Laboratories, ²General Atomics, ³Rugate Technologies, Inc., USA.

- 32 Roger Tarrés, Joan Vallribera, Hector Reno, and Jordi Casiano, "Behaviour of an Integrated HCPV and Solar Tracking System Designed for Roof Applications", Sol3g, Spain
- 33 T.N.D. Tibbits¹, D.B. Bushnell¹, K.W.J. Barnham¹, J.S. Roberts¹, K. Arthur, N.J. Ekins-Daukes², B. Browne², I.M. Ballard², "Commercial Development of a Dual Junction Quantum Well Concentrator Solar Cell and Concentrator System Yield Estimation", ¹QuantaSol Ltd, UK ²Imperial College London, UK
- 34 R. Vardanyan, V. Dallakyan, V. Vardanyan, and R. Manukyan, "Computer Program for Reflecting Linear Focus Concentrating PV Systems Optimal Design", State Engineering University of Armenia, Armenia
- 35 Viktor P. Vasylyev, Sergey V. Vasylyev, "Lowering the Cost of CPV Using 1000X Reflective Lens," SVV Technology Innovations, USA
- 36 M. Vivar^a, E. de Ramón^a, I. Antón^a, G. Sala^a, and C. Morilla^b, "Radial Parquet of Si-Cells for Parabolic Dish Receivers", ^aInstituto de Energía Solar, Universidad Politécnica de Madrid, ^bBP Solar España, Spain
- 37 Greg Wagoner, "Maximizing CPV Energy Density for Constrained Area Markets", GreenVolts, Inc., USA
- 38 Pete Young and Jason Amaral, "Using LCOE to Make Engineering and Operations Tradeoffs During New Product Development", SolFocus Inc., USA
- 39 Lu Zhao, Giovanni Flamand, and Jef Poortmans, "Numerical Simulation of Back-Contacted Floating Junction GaAs Solar Cells", IMEC vzw, Belgium