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### **PUBLISHED AND PRESENTED PAPERS (last 15 years)**

- Gligor Kanevče**, Aleksandar Dedinec, Aleksandra Dedinec, **Optimal usage of biomass for energy purposes toward sustainable development – a case of Macedonia**, Thermal Sciences, Volume 20, Supplement, 2016
- Gligor Kanevče**, Aleksandar Dedinec, Aleksandra Dedinec, Ljubica Kanevče, **Long-term predictions of the energy development – possibilities and challenges**, Thermal Sciences, Volume 20, Supplement, 2016
- Dedinec A, Taseska-Gjorgievska V, Markovska N, Obradovic Grncarovska T, Duic N, Pop-Jordanov J, **Kanevce G. Towards post-2020 climate change regime: Analyses of various mitigation scenarios and contributions for Macedonia**. Energy 2016; 94:124–37. doi:10.1016/j.energy.2015.10.085
- Dedinec, A., Taseska-Gjorgievska, V. Markovska, N., Pop-Jordanov, J., **Kanevce, G.**, Goldstein, G., Pye, S., Taleski, R. **Low Emissions Development Pathways of the Macedonian Energy Sector**, Renewable and Sustainable Energy Reviews Volume 53 (2016) 1202-1211.
- Dedinec, A., Taseska-Gjorgievska, V., Markovska, N., **Kanevce, G.**, Pop-Jordanov, J., **Comparative Analysis of the Development of the Energy System of Macedonia until 2035**. Proceedings of the International Symposium “Energetics 2016”, ZEMAK, Ohrid 2016.
- Taseska-Gjorgievska, V., Dedinec, A., Markovska, N., Grncarovska-Obradovic, T., **Kanevce, G.**, Pop-Jordanov, J., **Analysis of Opportunities for Climate Change Mitigation with a Bottom-up approach – Case of Macedonia**. Proceedings of the International Symposium “Energetics 2016”, ZEMAK, Ohrid 2016.
- Dedinec A., Taseska-Gjorgievska V., Markovska N., **Kanevce G.**, Pop-Jordanov J., Delaquil P., Goldstein G., **Impact Assessment of the Energy Efficiency Directive Implementation in the Energy Community Countries**. SDEWES2015, Dubrovnik, 27 September - 2 October 2015, Proceedings of the 10th Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES2015.0793, 2015
- A. Dedinec, N. Markovska, N. Duic, T. Obradovic Grncarovska, V. Taseska-Gjorgievska, **G. Kanevce**, J. Pop-Jordanov. **Environmental, economic, and social aspects of climate**

**change mitigation in Macedonia.** SDEWES2015, Dubrovnik, 27 September - 2 October 2015, Proceedings of the 10th Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES2015. 1132, 2015

**Kanevce G.,** *Development of the Macedonian Energy Sector in the Framework of the Energy Community*, Crossroads, The Macedonian Foreign Policy Journal, The Energy as a Global Issue, August 2014, Vol. IV, No. 1.

**G. H. Kanevce,** L. P. Kanevce, *The Combustion Plants Air Quality Impact - Present Status and Perspectives*, Ukraine – Macedonian Science's Proceeding N0. 6, Kiev, 2014

Taseska-Gjorgievska V., Dedinec A., Markovska N., Pop-Jordanov J., **Kanevce G.,** Goldstein G., Pye S., *Exploring the Impact of Reduced Hydro Capacity and Lignite Resources on the Macedonian Energy Sector*, Thermal Science, 2014, Vol. 18, No. 3, pp. 721-730

Markovska N., Dedinec A., Taseska-Gjorgievska V., Obradovic Grncarovska T., Duic N., Pop-Jordanov J., **Kanevce G.,** *Towards Post-2020 Climate Change Regime: Comparative Assessment of Various Scenarios and Contributions for a non-Annex I country*, Digital proceedings: 1st South East European Conference on Sustainable Development of Energy, Water and Environment Systems - SEE SDEWES Ohrid 2014, 29 June - 3 July 2014, SDEWES.SEE2014.0133.

Markovska N., Taseska-Gjorgievska V., Dedinec A., Obradovic Grncarovska T., Duic N., Pop-Jordanov J., **Kanevce G.,** *EU 2030 Climate Targets - a Perspective of an EU Candidate Country*, Digital proceedings: 1st South East European Conference on Sustainable Development of Energy, Water and Environment Systems - SEE SDEWES Ohrid 2014, 29 June - 3 July 2014, SDEWES.SEE2014.0147.

Taseska-Gjorgievska V., Dedinec A., Markovska N., Pop-Jordanov J., **Kanevce G.,** *Towards Affordable, Secure and Acceptable Electricity Supply: Analysis of the Fuel Mix Changes in a Power System Predominantly Based on Coal*, Digital proceedings: 1st South East European Conference on Sustainable Development of Energy, Water and Environment Systems - SEE SDEWES Ohrid 2014, 29 June - 3 July 2014, SDEWES.SEE2014.0132.

Dedinec A., Markovska N., Taseska V., Duić N., **Kanevce G.,** *Assessment of Climate Change Mitigation Potential of the Macedonian Transport Sector*, Energy 57 (2013) 177-187, Elsevier Journal.

Taseska V., Dedinec A., Markovska N., **Kanevce G.,** Goldstein G., Pye S., *Assessment of the Impact of Renewable Energy and Energy Efficiency Policies on the Macedonian Energy Sector Development*, J. Renewable Sustainable Energy 5, 041814 (2013); doi: 10.1063/1.4813401

Dedinec A., Taseska V., Markovska N., Pop-Jordanov J., **Kanevce G.,** Goldstein G., Pye S., **Low Emissions Development Pathways of the Macedonian Energy Sector**, SDEWES2013.0751

Dedinec A., Taseska V., Markovska N., Pop-Jordanov J., **Kanevce G.,** Goldstein G., Pye S., *Exploring the Impact of Reduced Hydro Capacity and Lignite Resources on the Macedonian Energy Sector*, SDEWES2013.0752

Kanevce Gligor, Kanevce Ljubica, Possibilities for Meeting the Macedonian Electricity Needs in the Period Until 2031, Power Plants 2012, Zlatibor, Serbia, 30 October – 2

November 2012, Full Paper in CD Proceedings

- Taseska Verica, Markovska Natasa, **Kanevce Gligor**, Goldstein Gary, Pye Steve, *Assessment of the Impact of Renewable Energy and Energy Efficiency Policies on the Macedonian Energy Sector Development*, 7<sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES – Ohrid, 1-6 July 2012, Book of Abstracts; Full Paper in CD Proceedings.
- Dedinec Aleksandar, Taseska Verica, Markovska Natasa, **Kanevce Gligor**, *Assessment of Climate Change Mitigation Potential of the Macedonian Transport Sector*, 7<sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES – Ohrid, 1-6 July 2012, Book of Abstracts; Full Paper in CD Proceedings.
- Dedinec Aleksandar, Taseska Verica, Markovska Natasa, **Kanevce Gligor**, Bosevski Tome, Pop-Jordanov Jordan, *The Potential of RES for GHG Emissions Reduction*, *Thermal Science*, 2012, Vol. 16, No. 3, pp. 717-728.
- Krkoleva Aleksandra, Taleski Rubin, Markovska Natasa, Taseska Verica, **Kanevce Gligor**, *Implementation of the Feed-in Tariffs in the Macedonian Power System*, 8<sup>th</sup> International Conference on the European Energy Market, Zagreb, Croatia 25-27 May 2011 (full paper IEEE Xplore, doi: 10.1109/EEM.2011.5953143,
- Dedinec Aleksandar, Taseska Verica, Markovska Natasa, **Kanevce Gligor**, Bosevski Tome, Pop-Jordanov Jordan, *The Potential of RES for GHG Emissions Reduction*, 6<sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems, Dubrovnik 25-29 September 2011, Book of Abstracts; Full Paper in CD Proceedings.
- Тасеска Верица, Крколева Александра, Марковска Наташа, Талески Рубин, **Каневче Глигор**, *Пошеницијал и можносѝи за искорисѝување на обновливиѝе извори на енерѝија во Република Македонија*, 7-мо Советување Мако Cigre 2011, 2-4 Октомври 2011, Охрид, Македонија; Зборник на куси содржини ISBN: 978-608-4578-02-4, Зборник на трудови ISBN: 978-608-4578-03-9, труд бр. С6-149R.
- G.H. Kanevce**, L.P. Kanevce, *Development of the Macedonian energy sector in the framework of the Energy Community*, 15<sup>th</sup> International symposium on thermal science and engineering, Sokobanja, October 18-21, 2011
- Kanevce Gligor**, Kanevce Ljubica, Nikola Popov, *Nuclear Power as an Option in Macedonian Energy Strategy*, Regional Conference Nuclear Energy - Global Trends and Perspectives in East Europe, Podgorica, Montenegro, 11-12 May 2011
- Kanevce Ljubica, Nikola Popov, **Kanevce Gligor**, *Nuclear Power Program Approaches in Selected Newcomer Countries*, Regional Conference Nuclear Energy - Global Trends and Perspectives in East Europe, Podgorica, Montenegro, 11-12 May 2011
- Nikola Popov, **Gligor Kanevce**, Ljubica Kanevce, *Nuclear Energy in the World and Europe - Development and Trends*, Regional Conference Nuclear Energy - Global Trends and Perspectives in East Europe, Podgorica, Montenegro, 11-12 May 2011
- Kanevce G**, *Utilization of the Renewable Energy Sources in the Republic of Macedonia - Present status and perspectives*, Regional Conference: Renewable Energy Sources and their Application, Podgorica, 27 October 2010
- Kanevce G**, *Development Strategy of the Macedonian Energy Sector*, International Conference ENERGY 2010, Zlatibor, 23-26 March 2010

- Kanevce G.**, Kanevce Lj., Andreevski I., *Macedonian Coal - Impact of Thermal Power Plants on the Environment*, Regional Energy Business Forum, Tehnoma 2009, Skopje
- Vangelče B. Mitrevski, **Gligor H. Kanevče**, Ljubica P. Kanevče, Dimitrije Voronjec, *Estimation of moisture diffusivity of banana*, Journal on Processing and Energy in Agriculture, Vol.13(1&2), 2009, pp.102-106
- Gligor H. Kanevče**, Ljubica P. Kanevče, Vangelče B. Mitrevski, George Dulikravich, *Inverse estimation of moisture diffusivity by utilizing temperature response of a drying body*, International Conference on Computational & Experimental Engineering and Sciences, Honolulu, Hawaii, U.S.A., 2008
- Vangelče B. Mitrevski, **Gligor H. Kanevče**, Ljubica P. Kanevče, Dimitrije Voronjec, *Changes of the volume of the foods during drying*, Journal on Processing and Energy in Agriculture, Vol.11(3&4), 2008, pp.131-133
- G. Kanevce**, L. Kanevce, V. Mitrevski, G. Dulikravich, *Inverse Estimation of Moisture Diffusivity by Utilizing Temperature Response of a Drying Body*, Tech Science Press, ICCES, vol.8, no.1, 2008, pp.1-6
- G. H. Kanevce**, L. P. Kanevce, V.B. Mitrevski, G. S. Dulikravich, H.R.B. Orlande, *Inverse approaches to drying of thin bodies with significant shrinkage effects*, Journal of Heat Transfer, Transactions of the ASME, March 2007, Vol. 129, pp. 379-386,
- G. Kanevce**, L. Kanevce, *Macedonian Energy Sector and Ecology*, International Conference on Macedonian and Ukrainian energy sectors, Odessa, Ukraine, 2007.
- G. H. Kanevce**, L. P. Kanevce, V.B. Mitrevski, G. S. Dulikravich, *Inverse approaches to drying of sliced foods*, Inverse Problems, Design and Optimization Symposium, Miami, Florida,U.S.A, 2007.
- G. H. Kanevce**, L. P. Kanevce, I.B. Andreevski, G. S. Dulikravich, *Inverse approaches in improvement of air pollution plume dispersion models for regulatory applications*, Inverse Problems, Design and Optimization Symposium, Miami, Florida,U.S.A, 2007.
- Gligor Kanevce**, *Energy sector in Macedonia and Ecological Aspects, Energy and municipality*, Skopje, 2007
- Vlatko Cingoski, Dimitar Hadji-Misev, **Gligor Kanevce**, Tome Bosevski, *Energy sector in Macedonia*, International Conference on Macedonian and Ukrainian energy sectors, Bitola, Macedonia, 2007
- Andreevski Igor, **Kanevče Gligor**, Kanevče Ljubica, *Air Pollution Modeling*, PROCESING 2007, Beograd, 2007.
- G. H. Kanevce**, L. P. Kanevce, *Dispersion modeling for regulatory applications*, Thermal Science, Vol. 10, No.2, (2006), pp. 141 - 154.
- G. Kanevce**, L. Kanevce, V. Mitrevski, G. S. Dulikravich and H. R. B. Orlande, *Inverse approaches to drying with and without shrinkage*, Proceedings of the 15th International Drying Symposium (IDS 2006), Budapest, Hungary, 20-23 August 2006.
- G. H. Kanevce**, L. P. Kanevce, *The combustion plants air quality impact*, Proceeding of the 12<sup>th</sup> Symposium on Thermal Science and Engineering of SCG, Sokobanja, October 18-21, 2005.

- G. H. Kanevce, L. P. Kanevce, V.B. Mitrevski, G. S. Dulikravich, H.R.B. Orlande *Inverse approaches to drying of bodies with significant shrinkage effects*, Proceedings of the 5<sup>th</sup> International Conference on Inverse Problems in Engineering: Theory and Practice, Cambridge, UK, 11-15<sup>th</sup> July 2005.
- Gligor H. Kanevce, Ljubica P. Kanevce, George S. Dulikravich, Helcio R.B. Orlande *Estimation of thermophysical properties of moist materials under different drying conditions*, Inverse Problems in Science and Engineering, Vol. 13, (2005) No. 4, pp: 341- 353.
- Ljubica Kanevce, Gligor Kanevce, George Dulikravich, *Application of inverse concepts to drying*, Thermal Science, Vol. 9, (2005) No. 2, pp. 31-44.
- Kanevce G.**, 2004, *Energy and Ecology*, Energy Week Workshop, International Fair on Energy, MACEF, Skopje, 6-10.04.2004.
- Kanevce G, 2003-2004, *TPP Bitola - Ecological Aspects*, Energetics, Journal of Energetics Association of Macedonia, 40/2003 pp. 70-73, 41/2004 pp. 70-73.
- Saker, L. F., Orlande, H. R. B., Huang, C.-H, Kanevce, G. H., Kanevce, L. P., *Analysis of different kinds of measurements on the estimation of time dependent mass and heat transfer coefficients in drying*, Proceedings of 2004 ASME International Mechanical Engineering Congress & Exposition, Paper Number: IMECE2004-59511, Anaheim, California, November 13-19, 2004.
- Saker, L. F., Orlande, H. R. B., Huang, C.-H., Kanevce, G. H., Kanevce, L. P., *Simultaneous Estimation of the Spacewise and Timewise Variations of Mass and Heat Transfer Coefficients in Drying*, Inverse Problems, Design and Optimization Symposium, Rio de Janeiro, Brazil, March 17-19, 2004.
- Kanevce G., Kanevce L., Markoski A., Trombev G., 2003, *The Influence of the Thermal Energetic Facilities on the Air Quality*, Energetics 2003 – Efficiency, Ecology, Economy, Skopje Fair, 03-07.06.2003.
- Kanevce G., 2003, *TPP Bitola – Ecological Aspects*, Workshop: Perspectives of the TPP Bitola in the Energy Sector of Macedonia, ZEMAK, Bitola, 09-10. 05. 2003.
- G. H. Kanevce, L. P. Kanevce, G. S. Dulikravich, *Estimation of thermophysical properties of a drying body at high mass transfer Biot number*, International Symposium on Inverse Problems in Engineering Mechanics IV, ISIP 2003, Nagano, Japan, February, 2003.
- Kanevce G., Kanevce Lj., Dulikravich G., Colaco M.J., *An Inverse Method at High Mass Biot Number*, Proceedings of HT03 ASME Summer Heat Transfer Conference, Las Vegas, Nevada, USA, July 21-23, 2003.
- Kanevce, G.H., Kanevce, L.P., Dulikravich, G.S. Orlande, H.R.B, *Estimation of thermophysical properties of moist materials under different drying conditions*, in Helcio R.B. Orlande eds., *Inverse Problems in Engineering - Theory and Practice*, e-papers, Rio de Janeiro, (2002), Vol II, pp. 331-338.
- Kanevce, L.P., Kanevce, G.H., and Dulikravich, G.S., *Estimation of drying food thermophysical properties by using temperature measurements*, in Helcio R.B. Orlande eds., *Inverse Problems in Engineering - Theory and Practice*, e-papers, Rio de Janeiro, (2002), Vol II, pp. 299-306.
- G. H. Kanevce, L. P. Kanevce, G. S. Dulikravich, *Estimation of thermophysical properties of*

*a drying body at high mass transfer Biot number*, in M. Tanaka, G. S. Dulikravich eds., *Inverse Problems in Engineering Mechanics IV*, Elsevier, Amsterdam-London-New York-Oxford-Paris-Shannon-Tokyo, 2003.

Gligor H. Kanevce, Ljubica P. Kanevce, *Design of Experiments for Inverse Estimation of Thermophysical Properties of a Drying Body*, Invited Paper, Fifth World Congress on Computational Mechanics, Vienna, Austria, July 7-12, 2002.

Kanevce, G.H., Kanevce, L.P., Dulikravich, G.S. Orlande, H.R.B, *Estimation of thermophysical properties of moist materials under different drying conditions*, 4<sup>th</sup> Int. Conf. on Inverse Problems in Engineering, Rio de Janeiro, Brazil, 2002.

Kanevce G., Kanevce L., Markoski A., 2002, *Modeling the Bitola Thermal Power Plant's Impact on the Air Quality*, Book of Abstracts of the 5<sup>th</sup> International Conference of the Balkan Environmental Association (B.EN.A) on Transboundary Pollution, Belgrade, Yugoslavia, November 7-10, 2002.

Kanevce, G.H., Kanevce, L.P., and Dulikravich, G.S., *Estimation of drying food thermophysical properties by using temperature measurements*, 4<sup>th</sup> International Conference on Inverse Problems in Engineering Rio de Janeiro, Brazil, 2002.

*Kanevce, G.H., Kanevce, L.P., Mitrevski, V.B.*, Design of experiments in the inverse drying problems, *Proceedings of the 15<sup>th</sup> International Congress of chemical and Process Engineering, CHISA 2002, August 25-29, Praha, Czech Republic, 2002.*

G. H. Kanevce, L. P. Kanevce, G. S. Dulikravich, *Simultaneous estimation of thermophysical properties and heat and mass transfer coefficients of a drying body*, in M. Tanaka, G. S. Dulikravich eds., *Inverse Problems in Engineering Mechanics III*, pp. 3-12, Elsevier, Amsterdam-London-New York-Oxford-Paris-Shannon-Tokyo, 2002.

## **INVITED LECTURES**

*Long-term energy sector planning – possibilities and challenges*, 16th Symposium on Thermal Science and Engineering of Serbia, Sokobanja, Serbia, October 22–25, 2013

*Stimulation of energy efficiency in Republic of Macedonia*, International Symposium “ENERGETICS 2012”, ZEMAK, Ohrid, October 04, 2012

*Program for Realization of the Energy Development Strategy in the Republic of Macedonia for the Period 2013-2017*, MANU, Skopje, September 03, 2012

*Strategy for Energy Development in the Republic of Macedonia – Energy Community Member, Roundtable: Infrastructure, Development and Energy”, Skopje, September 23, 2011*

*SYNERGY - Strategic Planning in Southeast Europe and the Caucasus – Activities and Accomplishments*, USAID/Hellenic Aid Cooperative Energy Program – Ministry of Economy, Skopje, 06.12.2010

*SWOT analysis of the Energy Sector in Macedonia and basic recommendations*, Round Table on Implementation of energy policy – barriers and opportunities, Council for Global Cooperation, Skopje, March 17, 2010

*Strategy for Utilization of Renewable Energy Sources in the Republic of Macedonia by 2020*, Round Table, Committee on Economy of the Assembly of the Republic of

Macedonia, Skopje, May 28, 2010

***Strategy for Utilization of Renewable Energy Sources in the Republic of Macedonia by 2020***, Experts' roundtable, Macedonian Academy of Sciences and Arts, March 11, 2010

***Present Status and Perspectives of Energy Sector in the Macedonia***, Workshop: Strategy for Energy Development in the Macedonia, ZEMAK, Skopje, July 22, 2009

***Renewable Energy Sources in the Republic of Macedonia – Present Status and Perspectives***, Regional Conference: Financing of Projects for Energy Efficiency and Renewable Energy Sources, MACEF, MANU, AERM, Skopje, October 2009

***Strategy for Energy Development in the Republic of Macedonia***, 6. Conference of MAKO CIGRE, Ohrid, 4-6 October 2009

***Strategy for Energy Development in the Republic of Macedonia***, Workshop: Coals in Macedonia and their role in the Strategy for Energy Development in the Republic of Macedonia, Association of Mining and geological Engineers of Macedonia, Bitola, December 10, 2009

***Strategy for Energy Development in the Republic of Macedonia***, Roundtable, Ministry of Economy, Skopje, June 2009

***Strategy for Energy Development in the Republic of Macedonia***, Roundtable, Committee on Economy of the Assembly of the Republic of Macedonia, Skopje, September 2009

***REK Bitola - Environmental Aspects***, Roundtable: REK Bitola – Prospects as an Energy pillar of the Republic of Macedonia, Bitola, 9-10 May 2003

***Environmental Impact Assessment of TPP Bitola - Surface Mining and Lignite Combustion***, WORKSHOP Action Plan for Lignite Supply to TPP Bitola, Phare Project: Investment Options in the Energy Sector in Macedonia, ESM, Skopje, 21.11.2002.

***Environmental Impact Assessment of HEP St. Petka***, WORKSHOP HEP St. Petka, Phare Project: Investment Options in the Energy Sector in Macedonia, ESM Skopje, 21.11.2002.

***Air Pollution Modeling***, Shandong Energy Research Institute of Shandong Academy of Sciences, P.R. China, March 1998.

***Air Pollution Modeling for Regulatory Purposes***, Department for Thermal Engineering, Shandong University of Technology, P.R. China, April 1998.

***Air Pollution Modeling, Department for Mathematics and Physics***, Shandong University of Technology, P.R. China, April 1998.

***Influence of Boundary Conditions on Moisture Diffusivity Estimation by Temperature Response***, Department of Mechanical and Aerospace Engineering, University of Texas - Arlington, USA, August 2000.

***Experimental and Numerical Study of Drying***, Department of Mechanical Engineering, Federal University of Rio de Janeiro, Brazil, June 2002.

## **PRINCIPAL INVESTIGATOR ON THE SCIENTIFIC PROJECTS**

***“Development of Methods for Strategic Planning in Energy Sector”***

*Supported by* Macedonian Academy of Sciences and Arts; 01/01/2009 – 31/12/2016

***“The combustion plants air quality impact”***

*Supported by* Macedonian Academy of Sciences and Arts; 01/01/2003 – 31/12/2005

***“Application of inverse approaches to examination of the simultaneous heat and mass transport processes”***

*Supported by* Macedonian Academy of Sciences and Arts; 01/01/2001 – 31/12/2003

***“Air Pollution Modeling for Regulatory Purposes”***

With:

Dr. Helge R. Olesen, National Environmental Research Institute, NERI, Denmark, and

Dr. David Carruthers, Cambridge Environmental Research Institute, CERC, U.K.

*Supported by* UNESCO; during 01/01/98-31/12/99

***“Thermal Electricity and the Environment”***

*Supported by* UNESCO; during 01/01/96-31/12/97

***“Radiative Vacuum Drying of Mushrooms”***

*Supported by* Ministry of Science of the Republic of Macedonia; during 01/01/96-31/12/98

***“Flow and Heat Transfer in Fluidized Beds with Different Size Particles”***

*Supported by* Ministry of Science of the Republic of Macedonia; during 01/01/90-31/12/92