

## EQUIPE EFD

Nom de de l'équipe : Electrofluidodynamique

Acronyme : EFD

Responsables d'équipe pour le contrat en cours : Eric MOREAU, Philippe TRAORE

Responsable d'équipe pour le contrat à venir :

## I - PRODUCTION DE CONNAISSANCES ET ACTIVITÉS CONCOURANT AU RAYONNEMENT ET À L'ATTRACTIVITÉ SCIENTIFIQUE DE L'UNITÉ ET DE CHAQUE ÉQUIPE / THÈME

### 1- Journaux / Revues

#### Articles scientifiques (189)

#### Les 20% les plus significatifs

##### 2015

- ACL.B09.1. BAYODA K. D., BENARD N., MOREAU E., Nanosecond pulsed sliding dielectric barrier discharge plasma actuator for airflow control: Electrical, optical, and mechanical characteristics, JOURNAL OF APPLIED PHYSICS, vol. 118, pp. 1-10, DOI : 10.1063/1.4927844, 2015
- ACL.B09.2. BENARD N., MIZUNO A., MOREAU E., Manipulation of a grid-generated mixing with an active honeycomb dielectric barrier plasma discharge, APPLIED PHYSICS LETTERS , vol. 107, pp. 1-5, 2015
- ACL.B09.3. KACHI M., DASCALESCU L., Corona-discharge-based neutralization of charged granular insulating materials in contact with an electrode of opposite polarity, JOURNAL OF ELECTROSTATICS, vol. 76, pp. 246-253, DOI : 10.1016/j.elstat.2015.06.006, 2015
- ACL.B09.4. LEBLANC P., PAILLAT T., MORIN G., PERRIER C., Behavior of the Charge Accumulation at the Pressboard/Oil Interface under DC External Electric Field Stress, IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION , vol. 22, pp. 2537-2542, DOI : 10.1109/TDEI.2015.005108, 2015
- ACL.B09.5. MILOUDI M., DASCALESCU L., LI J., Improved Overall Performances of a Tribo-Aero-Electrostatic Separator for Granular Plastics From Waste Electric and Electronic Equipment , IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS , vol. 51, pp. 4159-4165, DOI : 10.1109/TIA.2015.2429111, 2015
- ACL.B09.6. SUJAR-GARRIDO P., BENARD N., MOREAU E., BONNET J. P., Dielectric barrier discharge plasma actuator to control turbulent flow downstream of a backward-facing step, EXPERIMENTS IN FLUIDS , vol. 56, pp. 1-12, DOI : 10.1007/s00348-015-1939-1, 2015
- ACL.B09.7. WU J., TRAORE P., PEREZ A. T., ZHANG M., Numerical analysis of the subcritical feature of electrothermo-convection in a plane layer of dielectric liquid, PHYSICA D: NONLINEAR PHENOMENA, vol. 311-312, pp. 45-57, DOI : doi:10.1016/j.physd.2015.09.004, 2015

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- ACL.B09.8. AUDIER P., FENOT M., BENARD N., MOREAU E., Film cooling effectiveness enhancement using surface dielectric barrier discharge plasma actuator, INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW , vol. 62, pp. 247-257, DOI : 10.1016/j.ijheatfluidflow.2016.10.009, 2016.
- ACL.B09.9. BENARD N., PONS-PRATS J., PERIAUX J., BUGEDA G., BRAUD P., BONNET J. P., MOREAU E., Turbulent separated shear flow control by surface plasma actuator: experimental optimization by genetic algorithm approach, EXPERIMENTS IN FLUIDS , vol. 57, pp. 1-17, DOI : 10.1007/s00348-015-2107-3, 2016
- ACL.B09.10. CLERMONT P. S., PAILLAT T., PERES G., DUVAL Y., RIVENC J., Materials for Aircraft Fuel Tanks Characterized for Charge Generation from Flow Electrification with Jet A-1 Fuel, IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION , vol. 23, pp. 624-632, DOI : 10.1109/TDEI.2015.005332, 2016
- ACL.B09.11. ILIE V. A., MARTEMIANOV S., THOMAS A., Investigation of the local temperature and overheat inside the membrane electrode assembly of PEM fuel cell, INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol. 41, pp. 15528-15537, DOI : 10.1016/j.ijhydene.2016.04.103, 2016

- ACL.B09.12. KHERBOUCHE N., BENMIMOUN Y., TILMATINE A., ZOUAGHI A., ZOUZOU N., Study of a new electrostatic precipitator with asymmetrical wire-to-cylinder configuration for cement particles collection, *JOURNAL OF ELECTROSTATICS*, vol. 83, pp. 7-15, DOI : 10.1016/j.elstat.2016.07.001, 2016
- ACL.B09.13. WU J., TRAORE P., PEREZ A. T., VAZQUEZ P., LOUSTE C., Numerical evaluation of heat transfer enhancement due to annular electroconvection induced by injection in a dielectric liquid., *IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION*, vol. 23, pp. 614-623, DOI : 10.1109/TDEI.2015.005343, 2016

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- ACL.B09.14. ADAMOVICH I., BAALRUD S. D., BOGAERTS A., BRUGGEMAN P. J., CAPPELLI M., COLOMBO V., CZARNETZKI U., EBERT U., EDEN G., FAVIA P., GRAVES D. B., HAMAGUCHI S., HIEFTJE G., HORI M., KAGANOVICH I. D., KORTSHAGEN U., KUSHNER M. J., MASON N. J., MAZOUFFRE S., MOREAU E., The 2017 Plasma Roadmap: Low temperature plasma science and technology, *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, vol. 50, pp. 323001--, DOI : 10.1088/1361-6463/aa76f5, 2017
- ACL.B09.15. FATIHOU A., ZOUZOU N., DASCALESCU L., Particle Collection Efficiency of Polypropylene Nonwoven Filter Media Charged by Triode Corona Discharge, *IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS*, vol. 53, pp. 3970-3976, DOI : 10.1109/TIA.2017.2678979, 2017
- ACL.B09.16. MAIZIA R., DIB A., THOMAS A., MARTEMIANOV S., Proton exchange membrane fuel cell diagnosis by spectral characterization of the electrochemical noise, *JOURNAL OF POWER SOURCES*, vol. 342, pp. 553-561, DOI : dx.doi.org/10.1016/j.jpowsour.2016.12.053, 2017
- ACL.B09.17. NADJEM A., KACHI M., BEKKARA F., MEDLES K., ZEGHLOUL T., DASCALESCU L., Triboelectrification of granular insulating materials as affected by dielectric barrier discharge (DBD) treatment, *JOURNAL OF ELECTROSTATICS*, vol. 86, pp. 18-23, DOI : 10.1016/j.elstat.2016.12.017, 2017
- ACL.B09.18. PRAWATYA Y., NEAGOE B., ZEGHLOUL T., DASCALESCU L., Surface-Electric-Potential Characteristics of Tribo- and Corona-Charged Polymers: A Comparative Study, *IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS*, vol. 53, pp. 2423-2431, DOI : 10.1109/TIA.2017.2650145, 2017
- ACL.B09.19. RICHARD G., SALAMA A., MEDLES K., ZEGHLOUL T., DASCALESCU L., Comparative study of three high-voltage electrode configurations for the electrostatic separation of Aluminum, Copper and PVC from granular WEEE, *JOURNAL OF ELECTROSTATICS*, vol. 88, pp. 29-34, DOI : 10.1016/j.elstat.2016.12.022, 2017

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- ACL.B09.20. LEBLANC P., PAILLAT T., CABALEIRO J. M., TOUCHARD G., Flow electrification investigation under the effect of the flow parameters, *INTERNATIONAL JOURNAL OF PLASMA ENVIRONMENTAL SCIENCE & TECHNOLOGY*, vol. 11, pp. 156-160, DOI : 10.34343/ijpest.2018.11.02.156, 2018
- ACL.B09.21. LOUSTE C., ROMAT H., TRAORE P. H., DAABOUL M., VAZQUEZ P., SOSA R., Electroconvective Cavity Flow Patterns Created by Asymmetric Electrode Configuration, *IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS*, vol. 54, pp. 4851-4856, DOI : 10.1109/TIA.2018.2843797, 2018
- ACL.B09.22. MAIZIA R., DIB A., THOMAS A., MARTEMIANOV S., Statistical short-time analysis of electrochemical noise generated within a proton exchange membrane fuel cell, *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*, vol. 22, pp. 1649-1660, DOI : 10.1007/s10008-017-3848-0, 2018
- ACL.B09.23. MOREAU E., AUDIER P., BENARD N., Ionic wind produced by positive and negative corona discharges in air, *JOURNAL OF ELECTROSTATICS*, vol. 93, pp. 85-96, DOI : 10.1016/j.elstat.2018.03.009, 2018
- ACL.B09.24. REGUIG A., BENDAOU A., TILMATINE A., MEDLES K., DASCALESCU L., Effect of Shielded Electrodes Dimensions on Corona Charging Systems, *IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION*, vol. 25, pp. 396-403, DOI : 10.1109/TDEI.2017.006520, 2018
- ACL.B09.25. VAZQUEZ P., PEREZ A. T., TRAORE P., WU J., Electroconvection in a dielectric liquid between two concentric half-cylinders with rigid walls: Linear and nonlinear analysis, *PHYSICAL REVIEW E*, vol. 97, pp. ---, DOI : 10.1103/PhysRevE.97.023106, 2018
- ACL.B09.26. YADALA S., HEHNER M. T., SERPIERI J., BENARD N., DÖRR P. C., KLOKER M. J., KOTSONIS M., Experimental control of swept-wing transition through base-flow modification by plasma actuators, *JOURNAL OF FLUID MECHANICS*, vol. 844, pp. 1-11, DOI : 10.1017/jfm.2018.268, 2018

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- ACL.B09.27. LAGONOTTE P., RAILEANU ILIE V. A., MARTEMIANOV S., THOMAS A., Extrapolation to zero frequency with first time constant of ferri-ferrocyanide/Pt interface using Foster equivalent circuit and factorized modelling, *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*, vol. 839, pp. 256-263, DOI : 10.1016/j.jelechem.2019.03.047, 2019
- ACL.B09.28. MAAMAR M., AKSA W., BOUKHOULDA M. F., TOUHAMI S., DASCALESCU L., ZEGHLOUL T., Modeling and simulation of nonconductive particles trajectories in a multifunctional electrostatic separator, *IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS*, vol. 55, pp. 5244-5252, DOI : 10.1109/TIA.2019.2920805, 2019

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- ACL.B09.30. ORRIERE T., MOREAU E., PAI D. Z., Electric wind generation by nanosecond repetitively pulsed microplasmas, JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol. 52, pp. 464002--, DOI : 10.1088/1361-6463/ab372f, 2019
- ACL.B09.31. TEODORESCU H. N., PRAWATYA Y., ZEGHLOUL T., DASCALESCU L., Anisotropy of the triboelectric effects in polymeric slabs , TRIBOLOGY INTERNATIONAL, vol. 136, pp. 496-507, DOI : 10.1016/j.triboint.2019.04.014, 2019
- ACL.B09.32. VAZQUEZ P., TALMOR M., SEYED-YAGOOBI J., TRAORE P., YAZDANI M., In-depth description of electrohydrodynamic conduction pumping of dielectric liquids: Physical model and regime analysis, PHYSICS OF FLUIDS , vol. 31, pp. 113601--, DOI : 10.1063/1.5121164, 2019
- ACL.B09.33. ZOUZOU N., MAYER-LAIGLE C., ROUAU X., ZOUAGHI A., KHERBOUCHE N., DASCALESCU L., Study of Two-Stage-Type Electrostatic Precipitator in Axisymmetric Configuration Applied to Finely Ground Lignocellulosic Materials , IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS , vol. 55, pp. 3114-3121, DOI : 10.1109/TIA.2018.2885964, 2019

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- ACL.B09.34. ADAMOVICH I., BUTTERWORTH T., ORRIERE T., PAI D. Z., LACOSTE D. A., CHA M. S., Nanosecond second harmonic generation for electric field measurements with temporal resolution shorter than laser pulse duration, JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol. 53, pp. 145201--, DOI : 10.1088/1361-6463/ab6790, 2020
- ACL.B09.35. BENABDERRAHMANE A., ZEGHLOUL T., MEDLES K., TILMATINE A., DASCALESCU L., Triboelectric Charging of Granular Polymers Previously Exposed to Dielectric Barrier Discharges in Atmospheric Air, IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 56, no. 3, pp. 3061-3067, May-June 2020, doi: 10.1109/TIA.2020.2976788.
- ACL.B09.36. LESPRIT U., PAILLAT T., ZOUZOU N., PAQUIER A., YONGER M., Triboelectric charging of a glass bead impacting against polymers: Influence of mechanical properties, JOURNAL OF ELECTROSTATICS, vol. 107, no. 103474, pp. 1-9, DOI: 10.1016/j.elstat.2020.103474, 2020
- ACL.B09.37. MARTEMIANOV S., THOMAS A., ADIUTANTOV N., DENISOV E., Yu. K. EVDOKIMOV Yu. K., HISSEL D., Electrochemical noise analysis of a PEM fuel cell stack under long-time operation: noise signature in the frequency domain, JOURNAL OF SOLID STATE ELECTROCHEMISTRY pp. 1--, DOI : 10.1007/s10008-020-04759-z.
- ACL.B09.38. ZOUAGHI A., ZOUZOU N., BRAUD P., Study of dielectric particles motion in traveling and standing electrostatic waves using Particle Tracking Velocimetry, JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol. 53, pp. 1-12, DOI : 10.1088/1361-6463/ab93f6, 2020

## Les 80% restants

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- ACL.B09.39. ABDEL-SALAM M., EL-MOHANDES M., WEDAA H., KAMAL EL-DEEN S., ZOUZOU N., Electrical Re-entrainment of Particles in Wire-Duct Electrostatic Precipitators, INTERNATIONAL JOURNAL OF PLASMA ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol. 9, pp. 107-113, DOI : 10.1109/AEECT.2015.7360588, 2015
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- ACL.B09.41. ATROUNE S., TILMATINE A., ALKAMA R., SAMUILA A., DASCALESCU L., Comparative experimental study of tribo-electric charging of two size-classes of granular plastics , PARTICULATE SCIENCE AND TECHNOLOGY , vol. 33, pp. 652-658, DOI : 10.1080/02726351.2015.1019020, 2015
- ACL.B09.42. BAYODA K. D., BENARD N., MOREAU E., Electrical and mechanical characteristics of nanosecond pulsed sliding dielectric barrier discharges with different electrode gaps, JOURNAL OF PHYSICS CONFERENCE SERIES, vol. 646, pp. 1-6, DOI : 10.088/1742-6596/646/1/012054, 2015
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- ACL.B09.48. DUCHOSAL A., SERRA R., LEROY R., LOUSTE C., Numerical steady state prediction of spitting effect for different internal canalization geometries used in MQL machining strategy, JOURNAL OF MANUFACTURING PROCESSES, vol. 20, pp. 149-161, DOI : <http://dx.doi.org/10.1016/j.jmapro.2015.08.008>, 2015
- ACL.B09.49. FATIHOU A., ZOUZOU N., IUGA A., DASCALESCU L., Measurement of the electric potential at the surface of non-uniformly charged polypropylene nonwoven media, JOURNAL OF PHYSICS CONFERENCE SERIES, vol. 646, pp. 1-4, DOI : 10.1088/1742-6596/646/1/012035, 2015
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- ACL.B09.64. TRAORE P., WU J., LOUSTE C., PELLETIER Q., DASCALESCU L., Electrohydrodynamic Plumes due to Autonomous and Nonautonomous Charge Injection by a Sharp Blade Electrode in a Dielectric Liquid, IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 51, pp. 2504-2512, DOI : 10.1109/TIA.2014.2382763, 2015
- ACL.B09.65. TRAORE P., WU J., LOUSTE C., VAZQUEZ P., PEREZ A. T., Numerical study of a plane poiseuille channel flow of a dielectric liquid subjected to unipolar injection, IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol. 22, pp. 2779-2785, DOI : 10.1109/TDEI.2015.005107, 2015
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**2- Ouvrages**

Non renseigné

**3- Production dans des colloques / congrès, séminaires de recherche**

## Articles publiés dans des actes de colloques / congrès (191)

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#### Les 20% les plus significatifs

#### 2015

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- ACT.B09.11. KHERBOUCHE N., BENMIMOUN Y., TILMATINE A., ZOUAGHI A., ZOUZOU N., Experimental study of high resistivity particles collection using an electrostatic precipitator in wire-to-cylinder configuration, XIV International Conference on Electrostatic Precipitation ICESP'2016, 2016, Wroclaw (Poland).
- ACT.B09.12. LEBLANC P., PAILLAT T., CABALEIRO J. M., TOUCHARD G., Flow electrification investigated under the effect of the wall shearing stress., ESA/IEEE-IAS/IEJ/SFE Joint Conference on Electrostat, 2016, West La Fayette USA
- ACT.B09.13. MASTOURI W., PICHON L., THOMAS A., MARTEMIANOV S., Characteristics of the electrical double layer at the solid (304L) / liquid (NaCl solution) interface , 67th International Society of Electrochemistry Annual Meeting, 2016, The Hague (Pays-Bas)
- ACT.B09.14. MESSAL S., MEKHALEF A., MAYER-LAIGLE C., ROUAU X., DASCALESCU L., Séparation électrostatique de matières végétales finement divisées, 10ème Conférence de la Société Française d'Electrostatique (SFE), 2016, Poitiers (France)
- ACT.B09.15. ORRIERE T., BENARD N., MOREAU E., PAI D. Z., Experimental study of plume induced by nanosecond repetitively pulsed spark microdischarges in air at atmospheric pressure, 69th Annual Gaseous Electronics Conference, 2016, Bochum (Allemagne)
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- ACT.B09.20. BENARD N., LAIZET S., MOREAU E., PIV-based dynamic model of EHD volume force produced by a surface dielectric barrier discharge, 55th AIAA Aerospace Sciences Meeting, 2017, Dallas (Etats-Unis)
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- ACT.B09.27. YADALA S., HEHNER M. T., SERPIERI J., BENARD N., KOTSONIS M., Swept-Wing Transition Control Using AC-DBD Plasma Actuators, Flow Control Conference, AIAA AVIATION Forum, 2018, Atlanta (Etats-Unis)
- ACT.B09.28. ZOUAGHI A., ZOUZOU N., DASCALESCU L., Analysis of fine dielectric particles behavior in a traveling wave electric field, 2018 Electrostatics Joint Conference, 2018, Boston (Etats-Unis)

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- ACT.B09.41. BENARD N., MIZUNO A., Mixing improvement by manipulation of multiple jets using active plasma actuator, 3rd international conference ISNPEDADM 2015, 2015, La reunion (France)
- ACT.B09.42. BENARD N., PONS-PRATS J., PERIAUX J., BUGEDA G., BONNET J. P., MOREAU E., 'Experimental Optimization by Genetic Algorithm for Flow Separation Control with Surface Plasma Actuator, 50th International conference on Applied Aerodynamics, 2015, Toulouse (France)
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- ACT.B09.50. DUMITRAN L. M., NOTINGHER P. V., DASCALESCU L., Electrostatic separation of polymeric granular mixtures from medium and low voltage cables , 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE) , 2015, Bucarest (Roumanie)
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- ACT.B09.57. MESSAL S., ZEGHLOUL T., MEKHALEF A., DASCALESCU L., Sorting of finely-grinded granular mixtures using a belt-type corona-electrostatic separator, IEEE IAS Annual Meeting, 2015, Dallas, Tx, USA
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**2019**


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