

LAST CALL-FOR-ABSTRACTS

**The deadline for abstract submission has been extended.
You can send your abstract until 28th June**

***The Fourth International Symposium on
Environmental Biotechnology and Engineering (4ISEBE)***



**Institut de recherche
pour le développement**



institut méditerranéen de biodiversité et d'écologie
marine et continentale

**September 9-12, 2014
Mexico City, Mexico
<http://isebe.cinvestav.mx/>**



4th International Symposium on Environmental Biotechnology and Engineering

September 9-12, 2014

Cinvestav, Mexico City, Mexico

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UNIVERSIDAD AUTÓNOMA DEL ESTADO DE HIDALGO



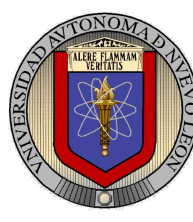
UNIVERSIDAD POLITÉCNICA DE AGUASCALIENTES



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Colegio Oficial de Ingenieros Químicos de Asturias y León



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Letter from Chairs

Dear colleagues,

We appreciate very much the interest of all those who have submitted abstracts for evaluation the past 15th June. We are very glad for this great response as we received near to 300 works. Yet, some colleagues requested an extension on the abstract submission deadline. Our goal is that everyone that considers the 4ISEBE as an opportunity to either show their research, networking or exchange scientific experiences may do so. Therefore, this is the Last Call for Abstracts for the Fourth International Symposium on Environmental Biotechnology and Engineering, being the new abstract submission deadline on 28th June.

The new additions to the organization of the symposium that you will find in this Last Call for Abstracts are:

- Eight thematic mini-symposia within the 4ISEBE
- Confirmed Featured Speakers
- New members of the Organizing and Scientific Committees

We look forward to hearing soon from you.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Fes'.

Dr. Fernando Esparza-García
Honor President

A handwritten signature in black ink, appearing to read 'Elvira'.

Prof. Elvira Ríos-Leal
Chair

A handwritten signature in black ink, appearing to read 'Héctor'.

Dr. Héctor Mario Poggi-Varaldo
Chair

A handwritten signature in black ink, appearing to read 'Omar'.

Dr. Omar Solorza-Feria
Chair



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1. Objectives

The Fourth International Symposium on Environmental Biotechnology and Engineering (4ISEBE) will be held in September 9-12, 2014, in Mexico City, Mexico. Environmental problems require an interdisciplinary solution and both engineers and scientists require information on a wide range of issues. This conference promotes discussion and debate based on the sharing of experiences at an international level. Speakers and delegates can exchange up-to-date information, and consider the current status of, and future developments in several issues dealing with hot subjects of Environmental Biotechnology and Environmental Engineering. The broad background of our delegates together with the informal and friendly atmosphere of the Symposium makes the networking opportunities as important as the technical sessions.

The 4ISEBE will focus on many topical areas of knowledge and technology that demand attention at local and international levels. This Symposium is intended to provide delegates with up-to-date information on: advances in Sustainability and Environmental System Analysis, Remediation of Soils and Aquifers; Microbial Ecology and application of Molecular Biology to solve environmental problems; potential future issues in Waste Management and Treatment; innovations in technology and practical experiences with novel and proven technologies; among others.

The main activities of the 4ISEBE will consist of:

- Guest lectures
- Oral Symposia
- Oral Sessions
- Poster Sessions
- Roundtables
- Short Courses
- Competition of Best Presentations Award
- Competition of Best Graduate Thesis 2010-2012 Award

2. Symposium outlook

2.1. Themes

Papers are invited on all aspects of Environmental Biotechnology and Environmental Engineering disciplines, and particular themes for this conference are as follows:

- Renewable and alternative energies, Biorefineries
- Sustainability and Environmental System Analysis (Life Cycle Analysis, etc.)
- Soil and Sediment Remediation
- Aquifer Remediation
- Solid Waste Management and Treatment
- Hazardous Waste Management and Treatment



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- Microbial Ecology
- Molecular Biology Applications to Environmental Problems
- Wastewater Treatment: Management, Processes, Reclamation, Reuse, Appropriate Technologies
- Risk Assessment and Environmental Impact
- Control and Modelling of Environmental Processes
- Environmental Chemistry
- Environmental Education

Please note that *this is not an exhaustive list of topics*; abstracts are welcome on all relevant themes of the Environmental Biotechnology and Environmental Engineering. New slot sessions can be opened according to the abstracts received.

2.2. Thematic mini-symposia

Eight mini-symposia on hot topics regarding environmental biotechnology and engineering will be organized within the activities of the 4ISEBE. Each mini-symposium will consist on 6 presentations from experts in the field. The topics are:

1. Environmental microbial ecology
2. Solar energy and environment
3. Climate change and greenhouse effect
4. Sustainability and life cycle assessment
5. Wastewater treatment technologies
6. Soil and aquifers remediation
7. Hydrogen fuel cells and sustainability
8. Environmental toxicology
9. Algal Biotechnology

2.3. Featured Speakers

Dr. Derek Lovley, University of Massachusetts at Amherst
Dr. Xavier Soberón, Institute of Biotechnology, UNAM
Dr. Hervé Macarié, Institute of Research for Development, IRD
Dr. Lourdinha Florencia, Universidade Federal de Pernambuco
Dr. Isabel Sastre-Conde, SEMILLA
Dr. Julio Antonio Pérez-Álvarez, SEMILLA
Dr. Damien Devault, Institute of Research for Development, IRD
Dr. Oumar Savadogo, Polytechnique Montréal
Dr. Savia Gavazza, Universidade Federal de Pernambuco
Dr. Aboubakar Ouattara, Université de Ouagadougou
Dr. Ricardo Aguilar, Cinvestav



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3. Symposium Committees

3.1. Organizing Committee

The 4ISEBE is organized by international organizations (IRD, Semilla, Colegio de Químicos de Asturias y León) and a consortium of first rate Mexican Institutions led by the CINVESTAV-IPN, UAM, UNAM, IPN, UAEH, UPP, Col. Posgraduados, and TESE.

The Symposium is led by the President of Honour and the Chairs, as follows:

- Dr. Fernando Esparza-García, Honour President, CINVESTAV-IPN, Dept. of Biotechnology and Bioengineering, Mexico
- Dr. Héctor M. Poggi-Varaldo, Chair, CINVESTAV-IPN, Dept. of Biotechnology and Bioengineering, Mexico
- Prof. Elvira Ríos-Leal, Chair, CINVESTAV-IPN, Dept. of Biotechnology and Bioengineering, Mexico
- Dr. Omar Solorza-Feria, Chair, Dept. of Chemistry, CINVESTAV-IPN, Mexico

The **Organizing Committee** consists of:

- Dr. Isabel Sastre-Conde, Semilla, Palma de Majorque, Spain
- Dr. Hervé Macarie, IRD-IMBE-CAEC, Lamentin (Martinique), France
- Dr. Sevastianos Roussos, IRD-IMBE-AMU, Marseille, France
- Dr. Isabelle Gaime, IRD-IMBE-AMU, Marseille, France
- Dr. Javier Santos-Navia, Colegio de Químicos de Asturias y León, Spain.
- Dr. Alejandro Alarcón, Colegio de Posgraduados, Mexico
- Dr. Arnulfo Albores, Cinvestav, Dept. of Toxicology, Mexico
- Dr. Rosa I. Beltrán-Hernández, Universidad Autónoma del Estado de Hidalgo, Mexico
- Luz M. Bretón-Deval, Cand Dr, Cinvestav, Dept. of Biotechnology and Bioengineering, Mexico
- Dr. Nathalie Cabirol, Faculty of Sciences, UNAM, Mexico
- Dr. Sergio Caffarel-Méndez, TESE, Mexico
- Dr. Rosa O. Cañizares-Villanueva, Cinvestav, Dept. of Biotechnology and Bioengineering, Mexico
- Dr. Fernando De Lorenz, TESE, Mexico.
- Dr. Luz M. Del Razo, Cinvestav, Dept. of Toxicology, Mexico
- Dr. Alma R. Domínguez-Bocanegra, Cinvestav and TESE, Mexico
- Carlos Escamilla-Alvarado, Cand Dr., Cinvestav, Dept. of Biotechnology and Bioengineering, Mexico
- Dr. Rosa M. Espinosa-Valdemar, UAM Azcapotzalco, Mexico
- Dr. Carlos Estrada-Vazquez, Universidad del Mar, Oax., Mexico
- Dr. Georgina Fernández-Villagómez, Faculty of Engineering, UNAM, Mexico
- Dr. Ronald Ferrera-Cerrato, Colegio de Posgraduados, Mexico



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Dr. Juvencio Galíndez-Mayer, ENCB-IPN, Mexico
Dr. Jaime García-Mena, Cinvestav, Dept. Genetics, Mexico
Giovanni Hernández-Flores, Cand Dr., Cinvestav, Dept. of Biotechnology and Bioengineering, Mexico
Mr. Rafael Hernández-Vera, M.Sc. Biol., Cinvestav, Dept. Biotechnology and Bioengineering, Mexico
Dr. Carlos Lucho-Constantino, Universidad Politécnica de Pachuca, Mexico
Dr. Arturo Morales Acevedo, Cinvestav Unidad Zacatenco, Mexico
Dr. Hiram Medrano Roldán, Instituto Tecnológico de Durango, Mexico
Karla M. Muñoz-Paez, Cand Dr, Cinvestav, Dept. of Biotechnology and Bioengineering, Mexico
Dr. Alfredo Ortega-Clemente, IT Boca del Río, Mexico
Dr. M. Teresa Ponce-Noyola, Cinvestav, Dept. of Biotechnology and Bioengineering, Mexico
Prof. Noemí Rinderknecht-Seijas, ESIQIE-IPN, Mexico.
Dr. Ileri Robles-González, Nova Universitas, Mexico
Dr. Yanet Romero-Ramírez, Universidad Autónoma de Guerrero, Mexico
Dr. Idania Valdez-Vazquez, University of Guanajuato, Mexico

3.2. International Scientific Committee

Abarca-Guerrero, Liliana, IT de Costa Rica, Costa Rica
Agamuthu Pariatamby, U. of Malaya, Malaysia, Editor in Chief of *Waste Manage. Res.*
Aguilar-López, Ricardo, Cinvestav, Dept. of Biotechnology and Bioengineering, Mexico
Álvarez-Aliaga, Teresa, Instituto de Bioquímica, Bolivia
Arana-Cuenca, Ainhoa, Universidad Politécnica de Pachuca, Mexico
Arias Peñaranda, Martha, University of Pamplona, Colombia
Aroca-Arcaya, Germán, U. Católica de Valparaíso, Chile
Baena, Sandra, Pontificia Universidad Javeriana, Colombia
Balagurusamy, Nagamani, Universidad Autónoma de Coahuila, Mexico
Ballesteros-Perdices Mercedes, CIEMAT, Spain
Barra-Cacciolo, Anna, IRSA-CNR, Italy
Barrera-Cortés, Josefina, Cinvestav, Mexico
Betancor, Lorena, Universidad ORT, Uruguay
Bolzonella, David, University of Southampton, United Kingdom
Calva-Calva, Graciano, Cinvestav, Mexico
Camacho-Pérez, Beni, Cinvestav, Mexico
Camarillo-Ravelo, Dante, ENCB-IPN, Mexico
Carmona Martinez, Alessandro, INRA, France
Castro-Fontana, Diana G., ENCB-IPN, Mexico
Castro-Ríos, Rocío, UANL, Mexico



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Cecchi, Franco, University of Verona, Italy
Chávez-Montes, Abelardo, UANL, Mexico
Christen, Pierre, MIO, IRD
De Lorenz, Fernando, TESE, Mexico
Del Razo-Flores, Luz María, Cinvestav, Mexico
Devault, Damien, IRD, Université des Antilles et de la Guyane, France
Dolfing Jan, Newcastle University, United Kingdom
Dominguez-Benetton, Xochitl, VITO, Belgium
Estrada Vázquez Carlos, IEUM, Mexico
Fang Herbert, Hong Kong University, China
Fernández Linares Luis, UPIBI-IPN, Mexico
Florencio Lourdinha, Universidade Federal de Pernambuco, Brazil
Foresti Eugenio, Universidade de Sao Paulo, Brazil
Gaime-Perraud Isabelle, IRD-IMBE-AMU, France
García-Mena Jaime, Cinvestav, Mexico
Gardea-Torresdey, Jorge, University of Texas at El Paso, USA
Gavazza dos Santos Savia, Universidade Federal de Pernambuco, Brazil
Gavrilescu Maria, Gheorghe Asachi Technical University of Iasi, Romania, Editor-in-
Chief of *Environ. Eng. Manage. J.*
González Becerra Aldo E., CBM Severo Ochoa-CSIC, Spain
González Mondragón Edith G., UTM, Mexico
Güereca Hernández L. Patricia, UNAM, Mexico
Guiot Serge, NRC, Canada
Hamdi Moktar, INSAT, Tunisia
Jiménez-Velez, Braulio, University of Puerto Rico, Puerto Rico
Juarez-López, Katy, IBT-UNAM, Mexico
Kahl Jonathan, University of Wisconsin, USA
Kato Mario, Universidade Federal de Pernambuco, Brazil
Le Mer Jean, IRD-MIO, France
Lobo-Bedmar, María del Carmen, IMIDRA, Spain
Lovley, Derek, University of Massachusetts, USA
Macarie Hervé, IRD-IMBE-CAEC, France
Martínez-Jerónimo, Fernando, ENCB-IPN, Mexico
Matsumoto-Kuwahara, Yasuhiro, Cinvestav, Mexico
Monroy-Hermosillo, Oscar, UAM-Iztapalapa, Mexico
Navia Rodrigo, Universidad de La Frontera, Chile, Editor of *Waste Manage. Res.*
Noyola, Adalberto, Institute of Engineering, UNAM, Mexico
Ouattara, Aboubakar S., Univ. de Ouagadougou, Burkina Faso
Quijano Guillermo, Universidad de Valladolid, Spain
Ramírez López, Elsa Marcela, UAA, Mexico
Ramos Ramírez, Emma Gloria, Cinvestav, Mexico
Ramos Valdivia, Ana Carmela, Cinvestav, Mexico



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Revah-Moiseev, Sergio, UAM-Cuajimalpa, Mexico
Rodríguez-Dorantes, Angélica, ENCB-IPN, Mexico
Romero-Ramírez, Yanet, Universidad Autónoma de Guerrero, Mexico
Rosano-Hernández, María C., IMP, Región Marina, Mexico
Roussos, Sevastianos, IRD-IMBE-AMU, France
Ruiz-Carrera, Violeta, UJAT, Mexico
Ruíz-Ordaz, Nora, ENCB-IPN, Mexico
Salazar-Montoya, J. Alfredo, Cinvestav, Mexico
Sanguinetti, Carlos, Universidad ORT, Uruguay
Sastre-Conde, Isabel, Semilla, Spain
Sathish-Kumar, Kamaraj, University of Chennai, India
Savado, Oumar, Polytechnique Montréal, Canada
Sayadi, Sami, CBS, Tunisia
Sparling, Richard, University of Manitoba, Canada
Tapia-Ramírez, José, Cinvestav, Mexico
Torres, Cesar, Arizona State University, USA
Torres-Muñoz Jorge Antonio, Cinvestav, Mexico
Vázquez-Morillas, Alethia, UAM, Mexico
Vázquez, Susana, Soc. Argentina de Microbiología, Argentina

3.3. Technical support

Ms. Blanca R. Arizona, Secretary, Cinvestav, Dept. of Biotechnology and
Bioengineering, Mexico
Mr. David Portilla-Silva, Cinvestav, Dept. of Biotechnology and Bioengineering, Mexico
Ms. M. Teresa Sánchez, Cinvestav, Dept. of Biotechnology and Bioengineering, Mexico

4. Venue/Location

The conference will be held at CINVESTAV campus Zacatenco in Mexico City, Mexico. Mexico City has over 100 museums, galleries and tours to choose from as well as numerous hotels, shops, restaurants and bars. The emblem Museum that cannot be missed is the Anthropological Museum located in the Chapultepec Park on Reforma Avenue. Also, several unique archeological and historical sites (remnants of Aztec temples, colonial churches and palaces) are in the City or at a short distance from the City (in a radius less than 100 km).

4. Abstract preparation and submission

Content: clearly state the objectives and relevance of your work. Specify succinctly the methodology (particularly the scale of your work, lab, pilot, full scale). Clearly state the results (preferably with numbers, if relevant) and the conclusions. Avoid generalities and



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vague statements of future results. Avoid the "narrative" type of Abstract. Abstracts with a strong commercial slant or bias will be rejected.

Format: Do not use the title 'Abstract'. Abstracts may be either in English, Spanish, or Portuguese, and cannot exceed one page. Please use Standard Letter page, with 2.5 cm margins left, right, top, and bottom. Use 12-point Arial or Arial-like font (sans serif). Write the title in capital (uppercase) letters, **bold**, and centered.

Leave a blank line before beginning the author list, which also is to be centered. Use uppercase-lowercase for this list. After each author name write a number between parentheses for identifying the author affiliation. The name of the Corresponding Author should be in **bold**, and *italics*.

Leave a blank line before beginning the affiliation list. Use uppercase-lowercase and full justification. Each affiliation should start with the corresponding number between parentheses, name of institution, Dept. or Unit, city, country. Provide complete address and e-mail, telephone and fax numbers only in the affiliation of the Corresponding Author.

Leave a blank line after the affiliation list, and start writing the text of the abstract. Do not leave blank lines between paragraphs, paragraphs should be indented. Use full justification for the text.

Please prepare the abstract file in Word 97-2003. The name of the abstract should be as follows:

4ISEBE-Last name Initial of the First Name-Abstract

If you are submitting more than one abstract, please add a correlative Arabic number (1, 2, etc.) after the word Abstract in the file name. For instance, two abstracts whose corresponding author is Rafael Hernandez-Vera should be named in this way:

4ISEBE-Hernandez-VeraR-Abstract1

4ISEBE-Hernandez-VeraR-Abstract2

In this example we chose an author with a compounded last name, by purpose, because this is the most common case in Mexico and Latin America.

Please check a Sample Abstract in the web page.

Presentation preference: In a second page after the abstract, please state your preference for presenting the paper, oral (platform) or poster.

Detailed List of authors: In the same second page after the abstract, please include **complete** address, e-mail, telephone and fax numbers of ALL CO-AUTHORS.

Languages: Official languages of the event are Spanish, English, and Portuguese. If you choose English for your Abstract and articles and the English is not your native language, ask for a review by a native English speaker for correct English syntax, style, and spelling, before sending the Abstract (all grammatical errors will be responsibility of



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the authors).

Submission: Abstracts must be submitted by e-mail to

4isebe@gmail.com

addressed to

Prof. Elvira Ríos-Leal or Dr. Héctor M. Poggi-Varaldo, CINVESTAV-IPN, Dept. of Biotechnology and Bioengineering, P.O. Box 14-740, Mexico DF, 07000, Mexico.

If you plan to send any document by private carrier, please use the street address as follows:

Dr. Héctor M. Poggi-Varaldo

Department: Biotechnology and Bioengineering

Institution: CINVESTAV-IPN

Street: Av IPN 2508, Col San Pedro Zacatenco

City: Mexico City

State: DF

Zip code: 07360

Country: MEXICO

Telephone: 52(55) 5747-3800 ext. 4324 and ext. 4336

Facsimile: 52(55) 5747-3313

Please include OUR phone and fax numbers on the address label of your shipment, just in case of misrouting by the private courier. Confirm the sending of your shipment to us by e-mail (4isebe@gmail.com) including the airway bill number and name of the private courier.

Receipt of your abstract will be acknowledged by e-mail within five working days.

Deadline for Abstract Submission: the abstracts should be sent **BEFORE 28 June 2014.**

Review: Abstracts will be reviewed for technical merit and relevance. When assigning accepted abstracts to program slots, the Evaluation Committee will consider the authors' suggestions as to the Topic session and presentation preference (oral or poster), but the final decision on placement will be based on best overall design of the Conference program.

Notification of Acceptance/Placement: By the end of June 2014, a letter stating the Committee's decision on each abstract will be mailed and e-mailed to the Corresponding Author. If the Abstract was accepted, this letter will state the oral or poster session to which the abstract has been assigned, and will provide information on preparing the presentation.

Please be aware that in general, multiple presentations by the same and one



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registered author are not possible. Each different abstract should have a different registered author.

5. Electronic book with articles of the Symposium

Acceptance letters will include information on submitting manuscripts *in-extenso* for publication in the electronic book of the Symposium (CD-ROM). The book will be published as an international book in a CD volume with ISBN, its title will be "Environmental Biotechnology and Engineering-2014".

Please note the Symposium will not hold the copyright of the Articles submitted by the Authors. So the Authors keep the copyright to themselves, and are free to post and publish elsewhere the whole or parts of their articles in the future.

However, if the Authors submit their article to the *Environmental Engineering and Management Journal* and is accepted for publication, it is likely that the Journal will ask the Authors to transfer the copyright to the Journal.

THE SUBMISSION DEADLINE OF ARTICLES FOR THE ELECTRONIC BOOK IS JULY 15, 2014. Please check the Sample Article in the web page. Also, below you will find information on Content and Formatting of the Articles for the Electronic Book.

6. Preparation and submission of articles for the electronic book

Content and formatting:

In general, please use Standard Letter page, font Arial 12, single spacing, all margins 2.5 cm, throughout your article.

The Title and the heading Abstract should be in uppercase, bold, Arial 12. The headings of the sections Introduction, Materials and methods, etc., should be in uppercase-lowercase, bold, Arial 12. Please leave one blank line above and below a heading.

Sub-Headings should be in uppercase-lowercase, bold, italics, Arial 12; the text that follows should be flushed. Yet, leave a blank line above the sub-heading.

Below we recommend the content of a typical research article. Other types of articles may have a different organization (for instance, a Review article).

Please prepare and save the article file in Word 97-2003. The name of the article file should be as follows:

4ISEBE-Last name Initial of the First Name-Article-Code from the Symposium

For instance, two articles whose corresponding author is Rafael Hernandez-Vera and the Symposium assigned the code numbers 245 and 247 to the accepted Abstracts, should be named in this way:

4ISEBE-Hernandez-VeraR-Article-245

4ISEBE-Hernandez-VeraR-Article-247

In this example we chose a corresponding author with a compounded last name, by



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purpose, because this is the most common case in Mexico and Latin America.

Please check a Sample Article in the web page. It is already in Word 97-2003 and you can use it as a template to write your own article on it.

TITLE

Please keep it short and meaningful. Uppercase letters, bold, centered, size 12. Title at the top. Leave a blank line.

Authors

Last name, First name (number for affiliation), semicolon separation, for each author. Use uppercase-lowercase, Arial size 12, centered, single spacing. Please write the name of the ***Presenting Author*** in bold and italics. Write a star at the right of the name of the Corresponding Author. Leave a blank line.

Affiliations (addresses)

(Number of affiliation). Name of the Institution or Company, Address, City, Country. Size 10, Arial 10, single spacing, left justification.

Leave a blank line before the Abstract.

ABSTRACT

Write title Abstract in uppercase, bold Arial 12, left justification.

For the text of the abstract, please paste the accepted abstract. However, modifications to the abstract can be accepted as long as they improve or update the previous summary.

Avoid the "narrative" type of Abstract. Abstracts with a strong commercial slant or bias will be rejected. If your contribution was accepted, it is most likely that it is free from these errors.

Do not exceed one page, preferably 350 - 400 words maximum. Use Arial 12, uppercase-lowercase, single spacing, full justification.

If your article is in Spanish or Portuguese, then your article should contain the Abstract in the original language and a version of the Abstract in English, mandatorily.

Leave one blank line before the key words.

Key words

Write up to 6 key words, in alphabetical order. Start with subtitle in bold, colon, keywords in normal font. See example below

Key words: keyword 1, keyword 2,, keyword 6

Please be aware that compound key words can be accepted, for instance



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anaerobic digestion

microbial fuel cells

A compound key words stands for one key word.

Use Arial 12, normal, lowercase, left justification, single-spacing. Leave one blank line before starting the Introduction.

If your key words are in Spanish or Portuguese, then you should provide also the key words in English, mandatorily.

Please note that the Editors could modify the key words submitted by the Authors.

Introduction

Subtitle in bold, Arial 12, uppercase-lowercase, left justification. No period at the end of the subtitle

Please state the background, relevance/contribution/issue addressed by the paper, and end with clear objective(s) of your work.

Text in regular Arial 12, uppercase-lowercase, full justification, single-spacing. Leave one blank line.

Materials and methods

Subtitle in bold, Arial 12, uppercase-lowercase, left justification. No period at the end of the subtitle

Specify clearly the experimental design (variables, response variables, controls, type of experiment, etc.) as well as the reactors or the physical experimental units. Specify the scale of your work, lab, pilot or full scale.

State the monitoring program followed in your research as well as all the methods and procedures used in your work. Please keep in mind that methods and procedures should be sufficiently detailed for warranting the repeatability of the experiments.

Text in regular Arial 12, uppercase-lowercase, full justification, single-spacing. Leave one blank line.

Results and discussion

Subtitle in bold, Arial 12, uppercase-lowercase, left justification. No period at the end of the subtitle.

We prefer one section 'Results and discussion' rather than separate sections 'Results' followed by 'Discussion'. Please check the consistency between the objectives and the results shown. Also, the experimental design should be congruent with Results. Please check carefully the quality as well as the significance of Figures and Tables that depict results.

If you present data in a Figure do not repeat the same data in a Table.

Please check that results are shown with the appropriate statistical analysis (standard deviations, statistical significance, correlation coefficient value when dealing with linear regression, determination coefficient when dealing with multiple regression, table of analysis of variance whenever there is a statistical experimental design, etc.).



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Discuss your results in the light of the international literature and reports. Please try to end the section with a statement on the contribution/significance of the findings in your work.

Text in regular Arial 12, uppercase-lowercase, full justification, single-spacing. Leave one blank line.

Conclusion

Subtitle in bold, Arial 12, uppercase-lowercase, left justification. No period at the end of the subtitle.

Please check with consistency between results and conclusions. Please do not “overconclude”, i.e., to make statements beyond those that the results can support. Bullets can be used in this section.

Text in regular Arial 12, uppercase-lowercase, full justification, single-spacing. Leave one blank line.

Acknowledgements

Subtitle in bold, Arial 12, uppercase-lowercase, left justification. No period at the end of the subtitle.

State the appropriate recognition to Institutions, Agencies and persons that contributed to your work.

Text in regular Arial 12, uppercase-lowercase, full justification, single-spacing. Leave one blank line.

References

References should be listed in ***alphabetical order by last name. Do not use references systems based on numbers.***

In the text, cite by Last name *et al.* (year) with only the first author last name, without any initials and without first names.

In the Reference list, cite in alphabetical order by Last Name as mentioned above. In the References list, please write ***all the authors*** of an opus, not just the first author.

Use hanging paragraph (sangria Francesa, in Spanish) with 1 cm indentation, Arial 10, full justification, single spacing.

Other recommendations:

Names of the journals in italics.

Titles of books in italics

Names of biological species in italics everywhere.

When citing a web site, please report the date of Accession by the Authors in the References list.

A few examples follow



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Articles in journals:

- Baghchehsaraee, B.; Nakhla, G.; Karamanev, D.; Margaritis, A. (2009). Effect of extrinsic lactic acid on fermentative hydrogen production. *International Journal of Hydrogen Energy*. 34: 2473-2579.
- Bocchini, D.A.; Alves-Prado, H.F.; Baida, L.C.; Roberto, I.C.; Gomes, E.; Silva, R.D. (2002). Optimization of xylanase production by *Bacillus circulans* D1 in submerged fermentation using response surface methodology. *Process Biochemistry*. 38: 727-731.

Book:

Montgomery, D.C. (1991). *Design and analysis of experiments*. 3rd ed., John Wiley and Sons, NY.

Book with Editor(s) or Compiler(s):

Robledo-Narváez, P.; Escamilla-Alvarado, C.; Ponce-Noyola, M.T.; Poggi-Varaldo, H.M. (2008). Biohydrogen from wastes and combination of biological processes for energy yield improvement: a review. In: Sastre-Conde, I.; Macarie, H. (Eds.). *Book of Abstracts of the the Third International Meeting in Environmental Biotechnology Engineering*. pp. 130, Palma de Mallorca, Spain.

Technical report:

INEGI (2009). Statistical yearbook of the United States of Mexico (in Spanish). National Geography Institute, Mexico.

Proceedings from a Congress or Symposium:

Escamilla-Alvarado, C.; Ponce-Noyola, M.T.; Poggi-Varaldo, H.M. (2010). Energetic potential of two-stage hydrogenesis-methanogenesis fermentation of the organic fraction of municipal solid waste. *Proceedings of the 14th International Biotechnology Symposium*, Rimini, Italy, 2010.

Web page:

SEMARNAT (2011). www.semarnat.gob.mx/residuos_solidos/1424.html; accessed 22 January 2011.

Notation

We recommend to include a Table of abbreviations, acronyms, and symbols used in the paper. It should be in alphabetical order. Please see an example below

Notation

ASSAD	acidogenic solid substrate anaerobic digestion
H-M	series process, hydrogen fermentation followed by a methanogenic stage
MRT	mass retention time
OFMSW	organic fraction of the municipal solid waste

Greek characters

α	parameter alpha, i.e., the ratio between intermediate alkalinity to partial alkalinity
η_{vs}	removal efficiency of volatile solids



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Figures

Figure caption below the figure, left justification, bold. FIGURE in uppercase bold, the remainder of the caption in uppercase-lower case, bold, Arial 12.

Number Figures with Arabic numbers. Very important: *Please check that the number corresponds to the order of citation in the article.*

Please check that each Figure entirely fits in one page (i.e., that the Table is not divided between two different pages), including the caption and the keys in the caption. This is achieved by using Return in the previous page and copy the Figure as fresh start in the next page.

If your figure has two cadres or more, please label each cadres with large bold lowercase letters a, b, c, etc., on the right or the left of each cadre. Please check that each cadre is explained in the Figure caption.

Tables

The Table title should be placed at the top of the Table, centered, bold, Arial 12. TABLE in uppercase, the remainder of the title in uppercase-lowercase.

Do not use lines for subdividing cells in Tables, unless necessary because the Table depicts results from several variables. Only draw two horizontal lines for the headings of the Table and one horizontal line at the end of the Table.

Number tables with Arabic numbers. Very important: *Please check that the number corresponds to the order of citation in the article.*

Please check that the Table entirely fits in one page (i.e., that the Table is not divided between two different pages). This is achieved by using Return in the previous page and copy the Table as fresh start in the next page.

If you need to write footnotes use superscript Arabic, lowercase letters ^a, ^b, ^c, etc.

Presentation: In another page after the article, please state the type of presentation recommended by the Symposium, either oral (platform) or poster. This mode could be different to that requested by the Authors at the time of submitting the Abstract.

Detailed List of authors: In the same second page after the abstract, please include **complete** address, e-mail, telephone and fax numbers of ALL CO-AUTHORS.

Languages: Official languages of the event are Spanish, English, and Portuguese. If you choose English for your Abstract and articles and the English is not your native language, ask for a review by a native English speaker for correct English syntax, style, and spelling, before sending the Abstract (all grammatical errors will be responsibility of the authors).

Please note that if your article is written in Spanish or Portuguese, the article should include as well versions of the Abstract and Key words in English, mandatorily.



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Submission: Articles must be submitted by e-mail to
4isebe@gmail.com

Care of

Prof. Elvira Ríos-Leal or Dr. Héctor M. Poggi-Varaldo, CINVESTAV-IPN, Dept. of Biotechnology and Bioengineering, P.O. Box 14-740, Mexico DF, 07000, Mexico.

If you plan to send any document by a private carrier, please use the street address as follows:

Dr. Héctor M. Poggi-Varaldo

Department: Biotechnology and Bioengineering

Institution: CINVESTAV-IPN

Street: Av IPN 2508, Col San Pedro Zacatenco

City: Mexico City

State: DF

Zip code: 07360

Country: MEXICO

Telephone: 52(55) 5747-3800 ext. 4324 and ext. 4336

Facsimile: 52(55) 5747-3313

7. Publication in Journals

The Scientific Committee is negotiating the sponsorship of recognized international journals for possible publication of articles based on selected oral and poster presentations at *4ISEBE*.

This will be contingent to the agreement of journals to devote special issue numbers to our *4ISEBE*, to be appeared in 2015.

Instructions to authors of these journals will be available in the journals' links in our web site or provided by e-mail upon request.

So far, we have retained the international periodical *Environmental Engineering and Management Journal*, indexed in the database Journal of Citation Reports Thomson-Reuters. A special issue devoted to *4ISEBE* with up to 20 articles will be published in 2015. The web site of this journal is <http://omicron.ch.tuiasi.ro/EEMJ/>

8. Short Courses

Proposals for short courses to be offered to the Symposium attendees will be accepted. PROPOSALS ARE DUE JUNE 15, 2014, and are to provide the following:

- biosketches of all participating instructors
- an agenda and overview of the proposed course content
- an outline of the course materials to be provided to attendees



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Openings for courses will be available on Monday 8 September and Thursday 11 September afternoon. Please state the date preferred.

Submit the Course Proposals to the e-mail:
4isebe@gmail.com

If your proposal is accepted, you will be contacted to discuss details concerning scheduling and how course registration will be handled. Short descriptions of the Courses will be included in the Preliminary Program.

So far, we have proposals for the following Short Courses:

- Biological Waste Treatment
- Applied Statistics and Experimental Design for Environmental Problems
- Molecular Biology Fundamentals and Tools for Environmental Research
- Hydrogen and Fuel cells with Proton Exchange Membranes

A minimum of 15 registered attendees to the Course is required for course feasibility. A maximum of 30 registered attendees will be accepted for each course.

A more detailed list of the programmed short courses follows:

“Biological Waste Treatment”,
taught by Professor Dr. Héctor M. Poggi-Varaldo and Mr. Giovanni Hernández-Flores,
Cand. Dr.; Date: Thursday September 11, from 14:00 to 20:00 h.

“Applied Statistics and Experimental Design for Research in Environmental Problems”,
taught by Dr. Graciano Calva-Calva and Professor Dr. Héctor M. Poggi-Varaldo
Date: Monday September 8, from 14:00 to 20:00 h

“Molecular Biology Fundamentals and Tools for Environmental Research”,
taught by Dr. Jaime García-Mena
Date: Monday September 8, from 15:00 to 20:00 h

“Hydrogen and fuel cells with proton exchange membranes”,
taught by Professor Dr. Omar Solorza-Feria
Date: Monday September 8, from 14:00 to 20:00 h

9. Award Competitions

Several competitions will be held at the 4ISEBE. Review criteria will be originality of the work, significance of results, and clarity of data presentation and discussion.

9.1. Best Presentations

All *in extenso* papers submitted before July 30, 2014, will be reviewed by a Committee



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of experts and up to five winning papers in each category will be selected. The competitions are named after outstanding Mexican Professors of Environmental Engineering and Environmental Biotechnology

"Professor Salvador Ayanegui-Jaritz", Award to the Best Presentations in Environmental Engineering

"Professor Carlos Casas-Campillo", Award to the Best Presentations in Environmental Biotechnology

9.2. Best Graduate Thesis

Students and Graduate Advisors are encouraged to submit a letter of presentation and significance along with either

- three bound copies of the Thesis, or

- 3 CDs containing the Thesis, or

- send the documents' files by email to 4isebe@gmail.com (whenever the gmail server does not reject the Thesis file because of large size), or

- upload to Dropbox the files of the Graduate Thesis. If you choose the Dropbox option please keep in touch with us at 4isebe@gmail.com to send the link and guarantee the downloading process.

The years of graduation should be 2010, 2011, 2012 and 2013 up to 15/June/2014. The competitions are named after outstanding Mexican Professors of Environmental Engineering and Environmental Biotechnology. The Theses may be written in English, French, Portuguese, or Spanish.

The categories are "Environmental Biotechnology" and "Environmental Engineering". One M. Sc. and one Ph.D. thesis will be selected for each category.

"Dr. Ubaldo Bonilla-Domínguez", Award to the Best Graduate Thesis in Environmental Engineering (one doctoral and one Master thesis)

"Professor Vicente López-Mercado", Award to the Best Graduate Thesis in Environmental Biotechnology (one doctoral and one Master thesis)

All awards will be presented to the awardees in a special ceremony during the Symposium.

The letters of application to the Award Competition as well as the Theses should be submitted by July 30, 2014.

Please send the documents to: Prof. Elvira Ríos-Leal or Dr. Héctor M. Poggi-Varaldo, CINVESTAV-IPN, Dept. of Biotechnology and Bioengineering, P.O.Box 14-740, Mexico DF, 07000, Mexico; 4isebe@gmail.com.



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10. Call for exhibits

Organizations that conduct commercial activities (environmental equipment manufacturers and suppliers, consulting companies, laboratory reagents and supply companies, analytical equipment manufacturers and representatives), Governmental organizations, and institutions of high education are invited to exhibit at the 4ISEBE.

Exhibits will be on display during the Symposium in an area adjacent to the Oral and Poster presentation areas. *The fee for a 2.5 m x 3 m space booth is US\$ 1 000.00. A discounted fee of US\$ 100.00 applies if payment is made before **June 15, 2014**.* Public institutions pay special lower fees, see section Registrations.

Space is limited and will be assigned on a first-come/first-served basis. For exhibitor information and an application form, send an e-mail to 4isebe@gmail.com or call 5255 5747 3800 ext 4324 or 4336

11. Registration

Please be aware that in general, multiple presentations by the same and one registered author are not possible. Each accepted abstract should have a different registered author. Otherwise, the abstract/article will not be published in the Proceedings and will be withdrawn from the Program.

Registrations fees (in US dollars) to the Symposium are as follows:

	Paid by <u>July 10, 2014</u>	Paid after <u>July 10, 2014</u>
Industry	500.00	550.00
Government/Academic	200.00	250.00
Student	100.00	125.00

For registering as a Student, a valid, official letter of statement from the Institution where the person is registered as undergraduate or graduate student must be presented.

The registration fee covers admission to all Oral and Poster sessions, exhibits, and coffee-breaks. Registration materials will include the Final Program, a booklet of Abstracts, and a CD book entitled *Environmental Biotechnology and Engineering-2014*, with ISBN, that contains edited, complete articles of presentations of the Symposium.

For cancellations received by August 1st 2014, the registration fee will be refunded, less a 20% charge of service fee. No refunds will be made AFTER AUGUST 1st 2014. Upon request non-attending registrants will receive all materials covered by their registration fees.

Registration fees (in US dollars) to each of the Courses are:



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	Paid by <u>August 15, 2014</u>	Paid after <u>August 15, 2014</u>
Industry	400.00	450.00
Government/Academic	100.00	150.00
Student	50.00	75.00

Registration fees (in US dollars) for Exhibitors:

	Paid by <u>June 15, 2014</u>	Paid after <u>June 15, 2014</u>
Industry/Private sector	900.00	1000.00
Higher Education Institutions	450.00	500.00

Instructions for paying registration fees will be send by e-mail upon request.

12. Call for the Organization of 5ISEBE in 2016

We encourage Groups and Institutions from abroad to apply for the organization of the *5th International Symposium on Environmental Biotechnology and Engineering-5ISEBE* in 2016.

In this regard, please send candidate proposals in Word to 4isebe@gmail.com and be prepared to present a short Power Point speech during a Special Session devoted to the organization of the future *5ISEBE* during the morning of Friday 12 September.

Please take into account at least the issues contained in this Call-for-Abstracts. Any improvement or expansion is welcome, of course.

13. Information

P.O. Box address:

Prof. E. Ríos-Leal or Dr. Héctor M. Poggi-Varaldo, CINVESTAV-IPN, Dept. of Biotechnology and Bioengineering, P.O. Box 14-740, Mexico DF, 07000, Mexico.

Street address:

Prof. E. Ríos-Leal or Dr. Héctor M. Poggi-Varaldo, CINVESTAV-IPN, Dept. of Biotechnology and Bioengineering, Ave. IPN No. 2508 c/ Ave. Ticomán, Col. San Pedro Zacatenco, Mexico DF, 07360, Del. G. A. Madero, Mexico.

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