



**VARNA SCIENTIFIC AND TECHNICAL UNIONS
TECHNICAL UNIVERSITY - VARNA**



**SIXTEENTH INTERNATIONAL
CONFERENCE
ON MARINE SCIENCES AND TECHNOLOGIES**



**FIRST ANNOUNCEMENT
AND CALL FOR PAPERS**

**October 20th - 21st, 2022
Varna, Bulgaria**

(IN PRESENCE AND REMOTELY)

Organized by:

**VARNA SCIENTIFIC AND TECHNICAL UNIONS (VSTU) AND
TECHNICAL UNIVERSITY - VARNA**

With the Co-operation of:

**BULGARIAN NATIONAL ASSOCIATION OF SHIPBUILDING
AND SHIPREPAIR (BULNAS)**

“N. VAPTSAROV” NAVAL ACADEMY - VARNA

BULGARIAN ACADEMY OF SCIENCES (BAS):

**INSTITUTE OF OCEANOLOGY VARNA
BULGARIAN SHIP HYDRODYNAMICS CENTRE**

PBM WOODWARD LTD

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*On behalf of the Organization Committee, I have the privilege to invite you to attend the Sixteenth International Conference on Marine Sciences and Technologies **Black Sea '2022**.*

***Black Sea '2022** is a follow-up of the traditional events regularly held in Varna on the problems of marine science and technologies.*

***Black Sea '2022** is expected to provide opportunity for exchange of knowledge and ideas between researchers from different scientific areas and from different countries in Europe, as well as meeting people of science with people from industry and shipping.*

Main Topics of the Conference:

- (1) Shipbuilding and Ship Repair**
- (2) Ship Hydrodynamics**
- (3) Electrical and Thermal Engineering**
- (4) Machinery and Propulsion Systems**
- (5) Maritime Transportation and Port Operations**
- (6) Oceanology**
- (7) Ocean Engineering**
- (8) Environmental Recycling and Disposal Strategies**
- (9) Decarbonization in shipping**
- (10) Fisheries and Aquacultures.**

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Important deadlines:

Submission of application forms including Abstracts: August 10th, 2022

Acceptance Notification: August 14th, 2022

Paper Submission: September 24th, 2022

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The conference is included in the National Reference List of NACID (INTERNATIONAL Scientific Conference on Marine Sciences and Tehnologies ...: proceedings - Varna: Varna Scientific and Technical Unions., 1992-). The collection of reports (ISSN 1314-0957) is sent to the National Library "St. St. Cyril and Methodius" and the Regional Library "Pencho Slaveykov" - Varna.

Language:

The Conference language will be English.

Conference Location:

Varna, BULGARIA
Festival and Congress Center

Procedure for Attending the Conference

The Conference is open to scientists, business, industry and stakeholders and everyone interested in the Conference topics. Everyone interested in the fields mentioned above can take part in the Conference. Abstracts of up to 150 words are invited before July 31st, 2022. The Abstracts should be sent by e-mail in attachment to: nts@nts.varna.net

The conference will be held at Festival and Congress Center, Varna. Online participation will be also possible. Each participant will receive the link for online participation.

Participation fee - 160 EURO / 120 EURO online /

For post graduate students - 60 EURO

GUIDELINES FOR PAPERS PREPARATION FOR BLACK SEA 2022

TITLE OF THE PAPER EACH

First AUTHOR*, Second AUTHOR** and Third AUTHOR*

(family name, name, surname of each author)

* Affiliation of the first author

**Affiliation of the second author, if different from the above, including organization name

Abstract. The present sample contains information on preparation of the digests for the XVI-th International Conference on Marine Sciences and Technologies BLACK SEA 2022, which will be held from 20 to 21 of October 2022 in Varna, Bulgaria. The abstract should contain the most important information about the paper. Please avoid citations and symbols other than normal text.

Keywords: Up to five, in alphabetical order.

INTRODUCTION

These instructions are written using Microsoft Word 2003. You can also use other versions of Microsoft Word like 97, 2000 or later.

The length of the paper should be 6 pages. The page setup should be in such a way that on A4 paper the margins are: top margin 2.5 cm, bottom margin 2 cm, left margin 2.5 cm and right margin 2.5 cm. Do not number the pages. The proceedings will be printed in A4 format.

PAPER ATTRIBUTES

Fonts and styles

It is recommended to use Times New Roman font or equivalent. The title, authors, affiliation, headings, table captions and figure captions are centered. Subheadings are left aligned. Left indent of the subheadings and the first line indent is 1.25 cm. Abstract and Keywords have 2 cm left and right indent. References should be numbered using “Numbering”, to have 0.75 cm hanging first line and the first tab set at 0.75 cm.

The font sizes and appearance for the styles to be used in the full paper are shown in Table 1.

Table 1. Font size and appearance for the different styles

Style	Font size	Appearance	Space before	Space after
TITLE	14	Bold, UPPERCASE	0 pt	18 pt
Authors	12	Normal	0 pt	12 pt
Affiliation	10	Normal	0 pt	6 pt
Abstract	11	Bold/normal	12 pt	6 pt
Keywords	11	Bold/normal	0 pt	6 pt
HEADING	11	Bold, UPPERCASE	12 pt	0 pt
Subheadings	11	Bold	6 pt	0 pt
OIPE_Default	10	Normal	3 pt	0 pt
Figure Caption	11	Bold/normal	6 pt	12 pt
Table Caption	11	Bold/normal	12 pt	0 pt
References	10	Normal	3 pt	0 pt

Figures, tables and equations

Tables can be created using “Table | Insert table” command. It is not recommended to split the table over two pages. Table caption should be over the table, as in Table 1.

Figures should be centered and figure captures placed below the figures, as in Fig. 1. In case of very small figures, where text wrapping is necessary, figures can be placed either left or right. It is recommended that the box “Float over text” for the figure position be not checked.

Equations should be centered and numbered flush left, as in Eqn. 1. They can be part of the sentence, like in the electromagnetic field equation written in the form

$$(1) \nabla \times (\nu \nabla \times A \vec{r}) - J \vec{r}_e + \sigma (\partial A \vec{r}) / \partial t - \sigma \nu \vec{r} \times B \vec{r} - \nabla \times (\nu \mu_0 M \vec{r}) = 0$$

All symbols used in the equations should be defined either before or right after the equation.



Figure 1. This is the figure caption for centred figure.

References

All references should be numbered in square brackets both in the list of references and when citing them [1]. For books [2], use *italic* for the book title. When the book or paper is not in English, give the English translation of the title and specify the language in parentheses at the end.

CONCLUSIONS

Please pay attention to the language. If your native language is not English, please get a native English-speaking colleague to proofread your paper. Employing UK spell checker is recommended.

REFERENCES

- [1] F. A u t h o r, S. Author and T. Author. Title of paper with only first letter capitalized. Journal name or conference proceedings, vol. 1, 2008, pp. 196-203.
- [2] M. Y o u n g. *The Technical Writer's Handbook*. Mill Valley. CA, University Science, 1989.

Address for Correspondence:

**Varna Scientific and Technical Unions, nts.varna-bg.org
BLACK SEA '2022 Secretariat**

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9000 - VARNA, BULGARIA**

Phone: + 359 52 630 532; E-mail: nts@nts.varna.net

APPLICATION FORM - BLACK SEA '2022 Conference

1. First and family name of participant:

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2. Scientific title and degree:

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3. Company (Organization) Position:

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4. Contacts:

Phone:; **Fax:**

E-mail:

Address:

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5. I will need an invoice: **Yes;**.....**No.**

6. Paper topic:

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7. Title of the paper:

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8. Co-author(s):

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9. Online participation: **Yes;** **No.**

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This Application Form accompanied by the Abstract of the paper should be mailed to the address of the Organizing Committee before July 31th, 2022.

A separate Application Form should be submitted for each paper.

Date:

Signature: