

## THE CONGRESS

This international Congress seeks to offer a cooperation and learning opportunity to those involved in the welding field.

It aims to reflect between academic institutions and the industrial sector on technological challenges linked to the science and technique of welding, as well as to exchange innovative ideas and to promote the coordination of joint projects.

## MODE

The Congress will be **completely virtual**.

## IMPORTANT DATES

Abstract submission deadline	15.11.20
Notification of abstract acceptance	15.12.20
Extended abstract submission deadline	15.03.21
Notification of acceptance	31.03.21
Final abstract submission deadline	15.04.21

CONGRESS: May 19-21, 2021

## REGISTRATION

Category	Through 20.04.21	From 21.04.21
General	USD 65 ARS 4000	USD 90 ARS 5500
Students (undergraduate and graduate)	USD 40 ARS 2500	USD 50 ARS 3200
UNNOBA Mechanical Engineering students	Free of charge	



MAY 19-21, 2021

JUNÍN | BUENOS AIRES | ARGENTINA

## ORGANIZERS

**UNNOBA** | Universidad Nacional del Noroeste de Buenos Aires

**SIDT** | Secretaría de Investigación, Desarrollo y Transferencia

**IDS** | Instituto de Investigaciones para el Desarrollo Sostenible

**LEMEJ** | Laboratorio de Ensayos de Materiales y Estructuras



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## TOPICS

### 1. ADVANCED WELDING PROCESSES

Processes in solid, liquid and solid-liquid phase traditionally employed to generate the coalescence of the materials. Advanced welding processes.

### 2. WELDING OF NEW MATERIALS

Procedures and techniques to conceive healthy joints in new materials, for instance welding of steel or metals and dissimilar alloys, welding of polymers, of wood, etc.

### 3. SIMULATION IN WELDING

Simulation as a method of estimating thermal cycles and stress fields, and as a facilitator of the formation of new welders and improving the work of those already experienced.

### 4. DESIGN AND MANUFACTURE OF PRODUCTS FOR WELDING

Development or improvement of equipment and instruments which facilitate welding operations and allow to increase the quality of welded joints.

### 5. INSPECTION AND QUALITY OF WELDED PRODUCTS

Techniques of quality control of welded products. Destructive and non-destructive tests for the control of welded joints.

### 6. CORROSION AND PROTECTION OF THE WELDED SURFACE

Development of techniques to delay or remove the effects of corrosion in the region of the welded joint.

### 7. STAFF DEVELOPMENT AND QUALIFICATIONS

Continuous personnel training alternatives on new welding techniques. Welders qualifications.

### 8. WELDING METALLURGY

Knowledge of the metallurgical and mechanical factors involved in welding processes. The addition of alloys, the preheating temperature, the heat provided, the post-welding thermal treatments, among others are of great importance for the behaviour of welded joints.

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