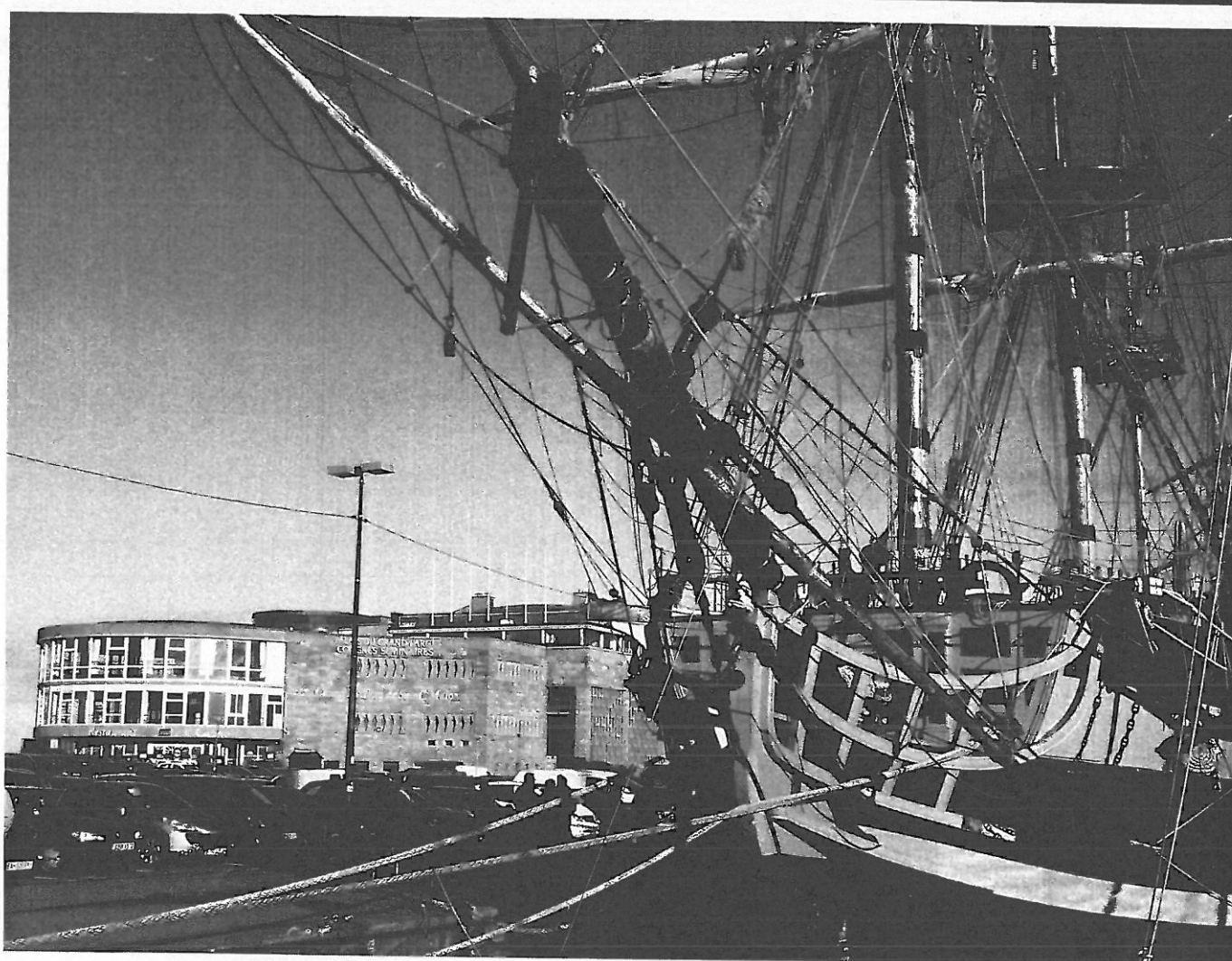


 **ISNT** 2012
Saint Malo - France

7th International Symposium on NITRIDES

June 3-6, 2012
Saint Malo



Institut des Sciences Chimiques de Rennes
UMR CNRS 6226 - Université de Rennes 1
Rennes, France



The 7th International Symposium on Nitrides

June 3rd-6th, 2012

Le Grand Large (Saint Malo)



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International Symposium on Nitrides (ISNT 2012)
<http://isnt2012.univ-rennes1.fr>

Confirmation of Participation

I, the undersigned, Franck Tessier, Chairman of ISNT 2012, certify that

Gökhan Açıkbş

attended the 7th International Symposium on Nitrides at Le Grand Large, Saint Malo / France from June 3 to 6 2012.

Dr. Franck Tessier
Chairman ISNT 2012

Saint Malo, June 6 2012



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Chargé de Recherche CNRS

Rennes, March 12 2012

International Symposium on Nitrides (ISNT 2012)

<http://isnt2012.univ-rennes1.fr>

Dear Colleague,

I have the pleasure to accept your communication as **a poster**.

Applying different characterization tools to Si_3N_4 powders

As a reminder, poster presentations should be displayed on an A0 vertical format (height = 120 cm and width = 85 cm approximately). Poster will be displayed in Vauban room from June 3 (17:00) to June 6 (11:00).

I advice you to complete now your registration and to book your hotel as soon possible, as St Malo is a busy resort.

Informations related to the meeting are displayed on the website and on our Facebook page.

Thanking you again for attending ISNT 2012 and waiting to meet with you in St Malo

Sincerely,

Franck Tessier

Franck Tessier

Chairman ISNT 2012

(P01)

Applying different characterization tools to Si_3N_4 powders

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ABSTRACT

The surface characteristics, particle size and impurities of starting Si_3N_4 powders exert a very significant influence on the microstructure and properties of sintered silicon nitride based ceramics. Even a change of the processing conditions such as milling liquids (water or isopropyl alcohol) and milling time can have a very strong effect on particle surface groups and hence the phase assemblage, microstructure and properties of sintered samples. In this study, FTIR, AAS, BET, SEM-EDX and XRF analysis were applied to the comprehensive characterization of Si_3N_4 powders in asreceived state which have produced by diimide, direct nitridation and combustion synthesis as well as after milling in different mediums (aqueous or alcohol). The correlation between surface characteristics, impurities of Si_3N_4 powders with sintering behaviour, phase assemblages will be reported.