





**2nd INTERNATIONAL SYMPOSIUM ON SiAlONs AND NON-  
OXIDES**

**December 2<sup>nd</sup> ~ 5<sup>th</sup>, 2007  
Ise-shima Royal Hotel, Mie, Japan**

Dr. N. Calis Acikbas  
Department of Materials Science and Engineering  
Anadolu University, Iki Eylul Campus,  
26555, Eskisehir, Turkey

26<sup>th</sup> October 2007

Dear Dr. Acikbas,

**DEVELOPMENT OF  $\alpha$ - $\beta$  SiAlON CERAMICS FROM DIFFERENT INITIAL  
Si<sub>3</sub>N<sub>4</sub> POWDERS**

N. Calis Acikbas, F. Kara and H. Mandal,

On behalf of the Program Committee of the 2nd International Symposium on Sialons and Non-Oxides, I am pleased to inform you that your above paper has been accepted for an oral presentation at the meeting. A draft technical program is attached for your information. Your presentation time will be 15 minutes including discussion. Please contact me if you have any inquiry regarding the technical program. For your presentation, you can use overhead projector, slides projector or data projector for IBM/PC compatible and Microsoft Office files only by using USB, CD, FDD or MO.

If you have not registered, please do so before 31<sup>st</sup> October. You can find information on registration, travel and accommodation in the Final Announcement of the conference at the web site:  
[http://www.bsk.ynu.ac.jp/~meguro\\_tatamilab/sialon/index.htm](http://www.bsk.ynu.ac.jp/~meguro_tatamilab/sialon/index.htm)

We are looking forward to seeing you at the conference.

Yours sincerely,

Professor Yi-Bing Cheng  
Chairman of Program Committee

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FINAL ANNOUNCEMENT



JSPS International Meeting Series

# 2<sup>ND</sup> INTERNATIONAL SYMPOSIUM ON SIALONS AND NON-OXIDES

December 2<sup>nd</sup> – 5<sup>th</sup>, 2007  
Ise-shima Royal Hotel, Mie, Japan



Sponsored by  
The Japan Society for Promotion of Science (JSPS)  
Yokohama National University  
JSPS 124th Committee  
Hosokawa Powder Technology Foundation

Cooperated by  
The Ceramics Society of Japan

[http://www.bsk.ynu.ac.jp/~meguro\\_tatamilab/sialon/index.htm](http://www.bsk.ynu.ac.jp/~meguro_tatamilab/sialon/index.htm)

2.00pm-2.25pm	<u>Invited</u> Y. Sakka, National Inst. for Mater. Sci., Japan Fabrication of textured $\beta$ -Si <sub>3</sub> N <sub>4</sub> and $\beta$ -Sialon by slip casting in a strong magnetic field and reaction sintering	<u>Invited</u> M. Ohyanagi, Ryukoku Uni., Japan Fully dense consolidation of stacking disordered silicon carbide prepared by high energy ball milling
2.25pm-2.50pm	<u>Invited</u> L. K. L. Falk, Chalmers Uni., Sweden SiAlON microstructures	<u>Invited</u> S. Suyama, Toshiba Corporation, Japan Evaluation of microstructure of high-strength reaction-sintered silicon carbide
2.50pm-3.15pm	<u>Invited</u> D. K. Kim, Korea Adv. Inst. of Sci. and Tech., Korea Dielectric properties of SiAlON ceramics	<u>Invited</u> T. Goto, Tohoku Uni., Japan High-temperature active and passive oxidation of SiC and SiC-ZrB <sub>2</sub> composite

**3.15pm-3.45pm TEA-BREAK**

Time		
3.45pm-4.00pm	<del>N. Calis</del> , Anadolu Uni., Turkey Development of $\alpha$ - $\beta$ Sialon ceramics from different initial Si <sub>3</sub> N <sub>4</sub> powders	T. Akashi, Hokkaido Uni., Japan High temperature oxidation of SiC powder in oxidizing atmosphere containing water vapor
4.00pm-4.15pm	Qian Liu, Shanghai Inst. of Ceramics, China Tribological Performance of Translucent $\alpha$ -sialon Ceramics	L. Wu, Inst. of Metal Research, China Reciprocating friction and wear behavior of Ti <sub>3</sub> AlC <sub>2</sub> , Ti <sub>3</sub> AlC <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> composites against AISI52100 bearing steel
4.15pm-4.30pm	K. Aoyagi, Hokkaido Uni., Japan Thermal conductivities of $\beta$ -SiAlONs by mechanically activated combustion synthesis	J. Wang, National Inst. of Mater. Sci., Japan Tailor-made mechanical properties of MAX phases from first-principles investigations
4.30pm-4.45pm	J. Xue, Shanghai Inst. of Ceramics, China Effects of processing on microstructure and properties of translucent Dy- $\alpha$ -sialon sintered at lower temperatures	D.-Y. Yang, Korea Adv. Inst. of Sci. and Tech., Korea Microstructure refinement in WC-Co via two-step sintering
4.45pm-5.00pm	M. Hotta, Tohoku Uni., Japan Preparation of $\beta$ SiAlON-cBN composites by Spark Plasma Sintering	J. Zhang, Inst. of Metal Research, China Synthesis and microstructure characterization of bulk Ti <sub>2</sub> SnC
5.00pm-5.15pm	M. Mikami, Mitsubishi Chemical Group Sci. and Tech. Res. Center, Inc., Japan New green phosphor for white LED: crystal structure and optical properties	M. Kasajima, Hokkaido Uni., Japan Effect of HfO <sub>2</sub> coating films on oxidation resistance of SiC ceramics
5.15pm-5.30pm	M. Riva, Uni. of Karlsruhe, Germany Surface structuring of $\alpha/\beta$ -SiAlON ceramics by plasma-etching	S.-K. Lee <sup>1</sup> , Nat. Inst. of Adv. Ind. Sci. and Tech. (AIST), Japan Thermal conductivity measurement of the AlN ceramics in the grain scale using thermoreflectance technique
5.30pm-5.45pm	J. Kelly, CeraGen, United States Microwave sintered silicon nitride-ZrO <sub>2</sub> composite	M. Wada, Japan Fine Ceram. Centre, Japan Tribological characteristics of carbon nanofiber dispersed silicon nitride based composites in high-temperature fuel
5.45pm-6.00pm	E. Ayas, Anadolu Uni., Turkey A novel method for preparing electrically conductive Sialon based composites	Takayuki Suehiro, Tohoku University, Japan Syntheses of rare-earth silicon nitrides and nitridosilicates by the gas-reduction-nitridation process

**6.30pm DINNER**

**DAY THREE: TUESDAY, 4TH DECEMBER 2007**

Time	Nitrides	Composites
8.30am-8.55am	<u>Invited</u> Z. J. Shen, Stockholm Uni., Sweden Consolidating silicon nitride solely by grain sliding	<u>Invited</u> M. Sopicka-Lizer, Silesian Uni. of Tech., Poland The phase evolution in the Si <sub>3</sub> N <sub>4</sub> -AlN system after high-energy mechanical treatment of the precursor powder

# Certificate of Attendance

Symposium : 2<sup>nd</sup> International Symposium on SiAlONs and Non-oxides

Period : Dec. 2-5, 2007

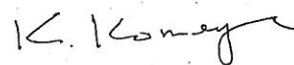

Place : Ise-shima Royal Hotel, Mie, Japan

Name : Nurcan Calis Acikbas

Affiliation : Anadolu University

We affirm that the person above attended our symposium

Dec. 5, 2007

Professor Katsutoshi Komeya  
Chairman, Organizing Committee  
2nd International Symposium  
on SiAlONs and Non-Oxides  
Yokohama National University