Program Poster Contributions

Tuesday 30 June 2015 (Day2) 15:40～17:20
Wednesday 1 July 2015 (Day3) 13:40～15:20

Heat Resisting Steels

PH-01 **Development of Precipitation Strengthened 15Cr Ferritic Steels for High Efficiency Thermal Power Plants**
Yoshiaki TODA, Qi LU, Mitsunari AUCHI, Masachika SHIBUYA, Kota SAWADA, Hideaki KUSHIMA, Kazuhiro KIMURA

PH-02 **Dislocation Cell Size during Recovery in Ni and Cu**
Naoya WATANABE, Sho FURUKAWA, Yoshinori MURATA

PH-03 **The Dependence of Interdiffusion Coefficients on Cr Concentration in Fe-Cr Systems**
Naoya KATSURAGAWA, Kazuhiro NOMURA, Yoshinori MURATA

PH-04 **Effect of Grain Boundary Character on $M_{23}C_6$ Carbide Distribution in High Cr Ferritic Heat-Resistant Steel**
T. OKANO, T. ITO, M. MITSUHARA, M. NISHIDA

PH-05 **Relationship between Recrystallization Behavior and Creep Property in High Mn Austenitic Stainless Steels with Mo**
Takanori ITO, Shigeru HIRATA, Masatoshi MITSUHARA, Minoru NISHIDA

PH-06 **Element-Partitioning Behavior in Al-Added Ferritic Steels Containing Fe_2(Nb,W) Laves Phase**
Ryosuke YAMAGATA, Kyosuke YOSHIMI

PH-07 **Change in Major Creep Reinforcer of Ferritic Heat-Resistant Steel Depending on Applied Stress**
Shigeto YAMASAKI, Masatoshi MITSUHARA, Satoshi HATA, Hideharu. NAKASHIMA

PH-08 **Effect of Retained Austenite on Mechanical Properties of Martensitic Precipitation Hardening Stainless Steels**
Toshiaki HORIUCHI, Kohei ABE, Kenji SHIMODA

PH-09 **Assessment of Creep Rupture Strength for the T/P24 Steel**
Marko SUBANOVIC

PH-10 **The Effect of Excess Oxygen on the High Temperature Oxidation in Zr Added FeCrAl ODS Steels**
Yuta SHIZUKAWA, Shigeharu UKAI, Naoko OONO, Shigenari HAYASHI, Satoshi Ohtsuka, Takeji KAITO, Tadahiko TORIMARU, Akihiko KIMURA

PH-11 ***In-situ*** **Tensile Observation near the Grain boundary Region at 1073 K in Laves Phase Strengthened Austenitic Heat Resistant Steels**
Mari YOSHIHARA, Naoki TAKATA, Masao TAKEYAMA

PH-12 **Stability of Sigma Phase at Elevated Temperatures in Mn added Fe-Cr-Ni Austenitic Heat Resistant Steels**
Yoshiki KUMAGAI, Naoki TAKATA, Masao TAKEYAMA

PH-13 **Effect of Ti Addition on the Formation of Fe_2Nb (TCP) and Ni_3Nb (GCP) Phases in Fe-20Cr-35Ni-2.5Nb Austenitic Heat Resistant steel at 1073K**
Hongmei LI, Naoki TAKATA, Satoru KOBAYASHI, Masao TAKEYAMA

PH-14 **Creep of Super Advanced Fe-Cr-Ni-Nb Austenitic Heat Resistant Steels at 1073 K for A-USC Power Plant**
Shion MISE, Taro OSAKA, Takahiro KIMURA, Naoki TAKATA, Satoru KOBAYASHI, Masao TAKEYAMA

PH-15 **Tensile Properties of Austenitic Heat Resistant Steel of Fe-20Cr-30Ni-2Nb at Ambient Temperature**
Naoki TAKATA, Naoya KANNO, Masao TAKEYAMA

PH-16 **In-situ Observation of the Fracture Behavior of the Oxide Scale on the Fe-20Cr-35Ni-2.5Nb-0.03B-0.1Zr steel during Tensile Deformation**
Takehiro SUMITA, Mitsutoshi UEDA, Masao TAKEYAMA

PH-17 **Current Situation and Future Trend on Energy Supply and Demand by Thermal and Nuclear Power Plants in Vietnam**
Son Thai CAO, Loc PHAM VU

Superalloys

PS-01 **Numerical Analysis of the Stacking Fault Energy in a Narrow γ Channel of a Ru-Bearing Ni-base Superalloy**
Tomonori KITASHIMA

PS-02 **Effects of Alloy Elements on Creep Properties and Microstructure Evolution Behavior of Ni-18Cr-13Co-9Mo-1.3Al-1.3Ti-0.1Ta-0.3Nb Alloy**
Shigekazu MIYASHITA, Kiyoshi IMAI, Reki TAKAKU

PS-03 **Morphology of γ' Precipitate in NKH71 Nickel Based Superalloy Depending on Heat Treatments**
Koki MIKI, Tomohisa KANZAKI, Takaoki TAKESHITA, Yoshinori Murata, Nobuhiro MIURA, Yoshihiro KONDO, Yuhki TSUKADA, Toshiyuki KOYAMA

PS-04 **Pandat™ Software: A Computational Tool for ICME Practitioners in Materials Design and Development**
Shuanglin CHEN, Weisheng CAO, Chuan ZHANG, Jun ZHU, Fan ZHANG

PS-05 **Rejuvenation of Nickel-Based Superalloys GTD444(DS) and René N5(SX)**
Luke RETTBERG, Tresa M. POLLOCK

PS-06 **Microstructural Evolution during Isothermal Aging of Ni-based Superalloy Inconel 617**
Naoya HAMAJIMA, Yoshihiro TERADA

PS-07 **Creep-Fatigue Interaction in Ni-Based alloy 617**
Yuta TANAKA, Kyohei NOMURA, Keiji KUBUSHIRO, Satoshi TAKAHASHI, Ryosuke NAITO, Yoshinori MURATA

PS-08 **Change in Both Dislocation Density and the Character in Alloy 617 after High-Temperature Fatigue and Creep Fatigue**
Ryosuke NAITO, Ryota KAWAI, Yoshinori MURATA, Yuta TANAKA, Kyohei NOMURA, Keiji KUBUSHIRO

PS-09 **Microstructure Factors Controlling the Grain-boundary Precipitation of Ni_3Nb-δ ($D0_a$) Phase in Ni-base Alloys**
Shuntaro IDA, Satoru KOBAYASHI, Masao TAKEYAMA

PS-10 **Development of Ni-base Forged Alloy for Large-Size Gas Turbine Disks**
Takashi SHIBAYAMA, Jun SATO, Shinya IMANO

PS-11 **Microstructure Control Using a High Amount of Incoherent Gamma Prime Phase to Improve Hot and Cold Workability of High Strength Ni-Base Forged Superalloys**
Atsuo OTA, Shinya IMANO

PS-12 **Functionally Graded Thermal Barrier Coating for Aluminum Components**
Sinthu CHANTHAPAN, Panadda SHEPPARD, Hathaipat KOIPRASERT, Chalermchai SUKHONKET, Kittichai NINON

PS-13 **Integrated 3D X-Ray Imaging and Numerical Simulation for Materials deSign and Development**
Chedtha PUNCREOBUTR, Anchalee MANONUKUL, Andre PHILLION, Julie L. FIFE, Peter D. LEE

Advanced Materials & Processing ----------

PA-01 **The Measurement of Elastic Modulus and Mechanical Spectroscopy for the Development of High Temperature Materials**
Kenichi OTA, Isao KODAMA, Katsumi KOTANI, Tetsuo ASANO

PA-02 **The Influence of Phase Composition to Eutectic Point of (Nb,Mo)- (Ni,Pd)Al Binary Alloys**
Takuya YAMANOUCHI, Seiji MIURA

PA-03 **Effect of Microstructural Stability on Creep Behavior of Wrought TiAl Based Alloy Using β-Ti Phase**
Hideki WAKABAYASHI, Shin USUI, Hirotoyo NAKASHIMA, Satoru KOBAYASHI, Masao TAKEYAMA

PA-04 **Fabricate Advanced Structural Materials ZrO_2 ($3Y_2O_3$)-Al_2O_3 Composite prepared by Powder Metallurgy Method**
Thuy T. NGUYEN, Nguyen Ngoc QUANG, Lap Q. TRAN, Khanh Q. DANG, Tung D. LE

Environment-Resistant Characteristics ----------

PE-01 **Adhesive Strength Measurement of Oxide Scale Formed on Low-Carbon Steel**
Hiroshi TANEI, Yasumitsu KONDO

PE-02 **Steam Oxidation Behavior of Precipitation-Strengthened 15Cr Ferritic Steels**
Mitsunari AUCHI, Yoshiaki TODA, Kouta SAWADA, Hideaki KUSHIMA, Kazuhiro KIMURA

PE-03 **High Temperature Corrosion Behavior of CrMoV Steel in CO_2 Contained Gas**
Takehisa HINO, Kiyoshi IMAI, Satoshi MIYASHIRO, Daizo SAITO, Takeo TAKAHASHI

PE-04 **The Effect of Nb, Mo and W addition on Steam Oxidation of Fe-20Cr-30Ni Alloys**
Norifumi KOCHI, Yoshitaka NISHIYAMA

PE-05 **Hot Corrosion of Two Phases α_2-Ti_3Al/γ-TiAl Intermetallic Alloy with Pack Aluminizing and with Enamel Coating at 850°C**
Muhammad Jajar PAMBUDI, Eddy Agus BASUKI, Djoko Hadi PRAJITNO

PE-06 **High Temperature Oxidation Behavior of Fe-Cr-Ti Alloys at 973 K in Air Atmosphere**
Asep Ridwan SETIAWAN, Aditianto RAMELAN, Rochim SURATMAN, Zaka RUHMA

PE-07 **Cyclic Oxidation Behaviors of 9Cr-1Mo Ferritic Stainless Steel at 650 °C and 750 °C**
Azzahra Rahmani ALI, Husaini ARDY, Asep Ridwan SETIAWAN

PE-08 **Determining the Possibility of Hot Gas Path Parts Repair, Based on Inspection and Metallurgical Examination Result on Gas Power Plant**
Bambang WIDYANTO, Aditianto RAMELAN, Rochim SURATMAN, Asep Ridwan SETIAWAN

PE-09 **The Effect of Na_2SO_4 Deposit on Hot Corrosion Behavior of Base and Weld Metals of A213 T91 Material at 750 and 950 °C**
Fauzan MAGHDAVI, Husaini ARDY, Asep Ridwan SETIAWAN

PE-10 **High Temperature Oxidation Behaviour of A213 T91 Ferritic Steel Weld Joint in Air Atmosphere at 650 °C and 750 °C**
Lukita Perdananta PINEM, Husaini ARDY, Asep Ridwan SETIAWAN