

# INDEX OF VOLUME 47

## *Part 1 – Subject index*

Assessment of ASME's FSRF rules for vessel and piping welds using a new structural stress method - Dong P., Hong J.K., Osage D., Prager M. (USA) - IIW-1589-02 (ex-doc. XIII-1929-02/XV-1118-02) - N° 1/2 (January-February).

Beneficial effects of higher pressure testing on redistribution of residual stresses and crack blunting - Baylac G., Boucher C. (France) - IIW-1577-02 (ex-doc. XI-765-02) - N° 7/8 (July-August).

Cost comparison of bolted and welded frame joints - Farkas J., Jármay K. (Hungary), Visser-Uys P. (South Africa) - IIW-1588-02 (ex-doc. XV-1101-02) - N° 1/2 (January-February).

Cost comparison of FSW and MIG welded aluminium panels - Mononen J., Sirén M., Hänninen H. (Finland) - IIW-1638-03 (ex-doc. III-1263-03/III-B-011-03) - N° 11/12 (November-December).

Effect of materials and geometrical variables on creep behaviour of welds - Thorwald G.V., Anderson T.L., Prager M. (USA) - IIW-1580-02 (ex-doc XI-770-02) - N° 5/6 (May-June).

Evaluation of simulation models for the estimation of deformation of adhesively bonded steel sheets during curing - Hahn O., Jendry J. (Germany) - IIW-1635-02 (ex-doc XVI-807-02) - N° 7/8 (July-August).

Fatigue strength improvement of lap welded joints by low transformation temperature welding wire – superior improvement with strength of steel - Ohta A., Suzuki N., Maeda Y., Maddox S.J. (Japan/United Kingdom) - IIW-1583-02 (ex-doc. XIII-1924-02) - N° 3/4 (March-April).

Fatigue strength of corner welded web stiffeners joints in synthetic seawater obtained by  $\sigma_{\max} = \sigma_y$  testing - Ohta A., Maeda Y., Suzuki N. (Japan) - IIW-1597-02 (ex-doc. XIII-1923-02) - N° 1/2 (January-February).

Friction processing technologies - Nicholas E D (United Kingdom) - IIW-1637-03 (ex-doc. III-1262-03/III-B-006-03) - N° 11/12 (November-December).

Friction stir welding – Tools and developments - Thomas W.M., Staines D.G., Norris I.M., de Frias R. - IIW-1639-03 (ex-doc. III-1264-03/III-B-013-03) - N° 11/12 (November-December).

Heatability of plastics in the microwave field – investigations on direct and indirect MW-welding - Potente H., Karger O., Fiegler G. (Germany) - IIW-1634-03 (ex-doc. XVI-818-03) – N° 7/8 (July-August).

High temperature testing of weldments - Dogan B. (Germany) - IIW1579-02 (ex-doc. XI-768-02) - N° 5/6 (May-June).

Hydrogen diffusion coefficient and modelling of hydrogen behaviour in welded joints of structural steels - Alexandrov B.T. (Bulgaria) - IIW-1614-03 (ex-doc. IX-2063-03) - N° 9/10 (September-October).

IIW recommendations for assessment of risk of fracture in seismically affected moment connections. - IIW-1574-02 (ex-doc. X-1504-02 / XV-1102-02 / XV-G-103-02) - N° 3/4 (March-April).

Mechanical behaviour of joints in FSW - Terasaki T., Akiyama T. (Japan) - IIW-1601-03 (ex-doc. III-1252-03/III-B-005-03) - N° 11/12 (November-December).

Microstructure aspects of creep resistant welded joints Letofsky E. (Austria) - 2003 Henry Granjon prize, category B - IIW-1612-03 (ex-doc. IX-2055-03) - N° 9/10 (September-October).

Nitrogen control during the autogenous arc welding of stainless steel - Du Toit M., Pistorius P.C. (South Africa) - IIW-1618-03 (ex-doc. IX-H-565-03 / IX-2068-03) - N° 9/10 (September-October).

Non vacuum electron beam welding of light sheet metals and steel sheets - Bach F.W., Szelagowski A., Versemann R., Zelt M. (Germany) - IIW-1566-02 (ex-doc. IV-823-02) - N° 3/4 (March-April).

Recent topics of FSW technology in Japan - Shinoda T. (Japan) - IIW-1600-03 (ex-doc. III-1245-03) - N° 11/12 (November-December).

Reducing pipeline construction costs: new technologies - Gordon R., Holdren R., Johnson M., Lozev M. (USA) - IIW-1578-02 (ex-doc. XI-771-02) - N° 5/6 (May-June).

Residual life evaluation of welded joints using a magnetic method for monitoring of welded structures - Lobanov L. M., Bondarenko A. Yu., Bondarenko Yu. K. (Ukraine) - IIW-1567-02 (ex-doc. V-1225-02) - N° 1/2 (January-February).

Shift of S-N curves with stress ratio - Ohta A., Suzuki N., Maeda Y. (Japan) - IIW-1582-02 (ex-doc. XIII-1922-02) - N° 1/2 (January-February).

Sigma phase precipitation and its influence on hydrogen induced cracking of duplex stainless steel base metal and weld metal - Nakade (Japan) K. - 2003 Henry Granjon prize, category B - IIW-1613-03 (ex-doc. IX-2056-03) - N° 9/10 (September-October).

Study on design of high strength steel structures - Inose K., Nakanishi Y., Imoto I. (Japan) - IIW-1590-02 (ex-doc. XV-1104-02) - N° 3/4 (March-April).

The significance of softened HAZs in high strength structural steels - Pisarski H.G., Dolby R.E. (United Kingdom) - IIW-1575-02 (ex-doc.X-1510-02) - N° 5/6 (May-June).

Water-jet-guided laser processing for wafer - Ikeda T., Ozawa K., Kutsuna M., Okada H. (Japan) - IIW-1548-01 (ex-doc. I-1115-01 / IV-791-01) - N° 1/2 (January-February).

## Part 2 – Author index

- Akiyama T., Terasaki T. (Japan) - IIW-1601-03 (ex-doc. III-1252-03/III-B-005-03) - Mechanical behaviour of joints in FSW - N° 11/12 (November-December).
- Alexandrov B.T. (Bulgaria) - IIW-1614-03 (ex-doc. IX-2063-03) - Hydrogen diffusion coefficient and modelling of hydrogen behaviour in welded joints of structural steels - N° 9/10 (September-October).
- Anderson T.L., Thorwald G.V., Prager M. (USA) - IIW-1580-02 (ex-doc. XI-770-02) - Effect of materials and geometrical variables on creep behaviour of welds - N° 5/6 (May-June).
- Bach F.W., Szlagowski A., Versemann R., Zelt M. (Germany) - IIW-1566-02 (ex-doc. IV-823-02) - Non vacuum electron beam welding of light sheet metals and steel sheets - N° 3/4 (March-April).
- Baylac G., Boucher C. (France) - IIW-1577-02 (ex-doc. XI-765-02) - Beneficial effects of higher pressure testing on redistribution of residual stresses and crack blunting - N° 7/8 (July-August).
- Bondarenko A. Yu., Lobanov L. M., Bondarenko Yu. K. (Ukraine) - IIW-1567-02 (ex-doc. V-1225-02) - Residual life evaluation of welded joints using a magnetic method for monitoring of welded structures - N° 1/2 (January-February).
- Bondarenko Yu. K., Lobanov L. M., Bondarenko A. Yu. (Ukraine) - IIW-1567-02 (ex-doc. V-1225-02) - Residual life evaluation of welded joints using a magnetic method for monitoring of welded structures - N° 1/2 (January-February).
- Boucher C., Baylac G. (France) - IIW-1577-02 (ex-doc. XI-765-02) - Beneficial effects of higher pressure testing on redistribution of residual stresses and crack blunting - N° 7/8 (July-August).
- de Frias R., Thomas W.M., Staines D.G., Norris I.M. - IIW-1639-03 (ex-doc. III-1264-03/III-B-013-03) - Friction stir welding - Tools and developments - N° 11/12 (November-December).
- Dogan B. (Germany) - IIW-1579-02 (ex-doc. XI-768-02) - High temperature testing of weldments - N° 5/6 (May-June).
- Dolby R.E., Pisarski H.G. (United Kingdom) - IIW-1575-02 (ex-doc. X-1510-02) - The significance of softened HAZs in high strength structural steels - N° 5/6 (May-June).
- Dong P., Hong J.K., Osage D., Prager M. (USA) - IIW-1589-02 (ex-doc. XIII-1929-02/XV-1118-02) - Assessment of ASME's FSRF rules for vessel and piping welds using a new structural stress method - N° 1/2 (January-February).
- Du Toit M., Pistorius P.C. (South Africa) - IIW-1618-03 (ex-doc. IX-H-565-03 / IX-2068-03) - Nitrogen control during the autogenous arc welding of stainless steel - N° 9/10 (September-October).
- Farkas J., Jármai K. (Hungary), Visser-Uys P. (South Africa) - IIW-1588-02 (ex-doc. XV-1101-02) - Cost comparison of bolted and welded frame joints - N° 1/2 (January-February).
- Fiegler G., Potente H., Karger O. (Germany) - IIW-1634-03 (ex-doc. XVI-818-03) - Heatability of plastics in the microwave field - investigations on direct and indirect MW-welding - N° 7/8 (July-August).
- Gordon R., Holdren R., Johnson M., Lozev M. (USA) - IIW-1578-02 (ex-doc. XI-771-02) - Reducing pipeline construction costs: new technologies - N° 5/6 (May-June).
- Hahn O., Jendry J. (Germany) - IIW-1635-02 (ex-doc. XVI-807-02) - Evaluation of simulation models for the estimation of deformation of adhesively bonded steel sheets during curing - N° 7/8 (July-August).
- Hänninen H., Mononen J., Sirén M. (Finland) - IIW-1638-03 (ex-doc. III-1263-03/III-B-011-03) - Cost comparison of FSW and MIG welded aluminium panels - N° 11/12 (November-December).
- Holdren R., Gordon R., Johnson M., Lozev M. (USA) - IIW-1578-02 (ex-doc. XI-771-02) - Reducing pipeline construction costs: new technologies - N° 5/6 (May-June).
- Hong J.K., Dong P., Osage D., Prager M. (USA) - IIW-1589-02 (ex-doc. XIII-1929-02/XV-1118-02) - Assessment of ASME's FSRF rules for vessel and piping welds using a new structural stress method - N° 1/2 (January-February).
- Ikeda T., Ozawa K., Kutsuna M., Okada H. (Japan) - IIW-1548-01 (ex-doc. I-1115-01 / IV-791-01) - Water-jet-guided laser processing for wafer - N° 1/2 (January-February).
- Imoto I., Inose K., Nakanishi Y. (Japan) - IIW-1590-02 (ex-doc. XV-1104-02) - Study on design of high strength steel structures - N° 3/4 (March-April).
- Inose K., Nakanishi Y., Imoto I. (Japan) - IIW-1590-02 (ex-doc. XV-1104-02) - Study on design of high strength steel structures - N° 3/4 (March-April).
- Jármai K., Farkas J. (Hungary), Visser-Uys P. (South Africa) - IIW-1588-02 (ex-doc. XV-1101-02) - Cost comparison of bolted and welded frame joints - N° 1/2 (January-February).
- Jendry J., Hahn O., (Germany) - IIW-1635-02 (ex-doc. XVI-807-02) - Evaluation of simulation models for the estimation of deformation of adhesively bonded steel sheets during curing - N° 7/8 (July-August).
- Johnson M., Gordon R., Holdren R., Lozev M. (USA) - IIW-1578-02 (ex-doc. XI-771-02) - Reducing pipeline construction costs: new technologies - N° 5/6 (May-June).
- Karger O., Potente H., Fiegler G. (Germany) - IIW-1634-03 (ex-doc. XVI-818-03) - Heatability of plastics in the microwave field – investigations on direct and indirect MW-welding - N° 7/8 (July-August).

- Kutsuna M., Ikeda T., Ozawa K., Okada H. (Japan) - IIW-1548-01 (ex-doc. I-1115-01 / IV-791-01) - Water-jet-guided laser processing for wafer - N° 1/2 (January-February).
- Letofsky E. (Austria) – 2003 Henry Granjon prize, category B - IIW-1612-03 (ex-doc. IX-2055-03) - Microstructure aspects of creep resistant welded joints - N° 9/10 (September-October).
- Lobanov L. M., Bondarenko A. Yu., Bondarenko Yu. K. (Ukraine) - IIW-1567-02 (ex-doc. V-1225-02) - Residual life evaluation of welded joints using a magnetic method for monitoring of welded structures - N° 1/2 (January-February).
- Lozev M., Gordon R., Holdren R., Johnson M. (USA) - IIW-1578-02 (ex-doc. XI-771-02) - Reducing pipeline construction costs: new technologies - N° 5/6 (May-June).
- Maddox S.J. (United Kingdom), Ohta A., Suzuki N., Maeda Y. (Japan) - IIW-1583-02 (ex-doc. XIII-1924-02) - Fatigue strength improvement of lap welded joints by low transformation temperature welding wire - superior improvement with strength of steel - N° 3/4 (March-April).
- Maeda Y., Ohta A., Suzuki N. (Japan) - IIW-1597-02 (ex-doc. XIII-1923-02) - Fatigue strength of corner welded web stiffeners joints in synthetic seawater obtained by  $\sigma_{\max} = \sigma_y$  testing - N° 1/2 (January-February).
- Maeda Y., Ohta A., Suzuki N. (Japan) - IIW-1582-02 (ex-doc. XIII-1922-02) - Shift of S-N curves with stress ratio - N° 1/2 (January-February).
- Maeda Y., Ohta A., Suzuki N. (Japan), Maddox S.J. (United Kingdom) - IIW-1583-02 (ex-doc. XIII-1924-02) - Fatigue strength improvement of lap welded joints by low transformation temperature welding wire - superior improvement with strength of steel. - N° 3/4 (March-April).
- Mononen J., Sirén M., Hänninen H. (Finland) - IIW-1638-03 (ex-doc. III-1263-03/III-B-011-03) - Cost comparison of FSW and MIG welded aluminium panels - N° 11/12 (November-December).
- Nakade K. (Japan) - 2003 Henry Granjon prize, category B - IIW-1613-03 (ex-doc. IX-2056-03) - Sigma phase precipitation and its influence on hydrogen induced cracking of duplex stainless steel base metal and weld metal - N° 9/10 (September-October).
- Nakanishi Y., Inose K., Imoto I. (Japan) - IIW-1590-02 (ex-doc. XV-1104-02) - Study on design of high strength steel structures - N° 3/4 (March-April).
- Nicholas E.D. (United Kingdom) - IIW-1637-03 (ex-doc. III-1262-03/III-B-006-03) - Friction processing technologies - N° 11/12 (November-December).
- Norris I.M., Thomas W.M., Staines D.G., de Frias R. - IIW-1639-03 (ex-doc. III-1264-03/III-B-013-03) - Friction stir welding - Tools and developments - N° 11/12 (November-December).
- Ohta A., Maeda Y., Suzuki N. (Japan) - IIW-1597-02 (ex-doc. XIII-1923-02) - Fatigue strength of corner welded web stiffeners joints in synthetic seawater obtained by  $\sigma_{\max} = \sigma_y$  testing - N° 1/2 (January-February).
- Ohta A., Suzuki N., Maeda Y. (Japan) - IIW-1582-02 (ex-doc. XIII-1922-02) - Shift of S-N curves with stress ratio - N° 1/2 (January-February).
- Ohta A., Suzuki N., Maeda Y. (Japan), Maddox S.J. (United Kingdom) - IIW-1583-02 (ex-doc. XIII-1924-02) - Fatigue strength improvement of lap welded joints by low transformation temperature welding wire - superior improvement with strength of steel - N° 3/4 (March-April).
- Okada H., Ikeda T., Ozawa K., Kutsuna M. (Japan) - IIW-1548-01 (ex-doc. I-1115-01 / IV-791-01) - Water-jet-guided laser processing for wafer - N° 1/2 (January-February).
- Osage D., Dong P., Hong J.K., Prager M. (USA) - IIW-1589-02 (ex-doc. XIII-1929-02/XV-1118-02) - Assessment of ASME's FSRF rules for vessel and piping welds using a new structural stress method - N° 1/2 (January-February).
- Ozawa K., Ikeda T., Kutsuna M., Okada H. (Japan) - IIW-1548-01 (ex-doc. I-1115-01 / IV-791-01) - Water-jet-guided laser processing for wafer - N° 1/2 (January-February).
- Pisarski H.G., Dolby R.E. (United Kingdom) - IIW-1575-02 (ex-doc. X-1510-02) - The significance of softened HAZs in high strength structural steels - N° 5/6 (May-June).
- Pistorius P.C., Du Toit M. (South Africa) - IIW-1618-03 (ex-doc. IX-H-565-03 / IX-2068-03) - Nitrogen control during the autogenous arc welding of stainless steel - N° 9/10 (September-October).
- Potente H., Karger O., Fiegler G. (Germany) - IIW-1634-03 (ex-doc. XVI-818-03). - Heatability of plastics in the microwave field – investigations on direct and indirect MW-welding - N° 7/8 (July-August).
- Prager M., Dong P., Hong J.K., Osage D. (USA) - IIW-1589-02 (ex-doc. XIII-1929-02/XV-1118-02) - Assessment of ASME's FSRF rules for vessel and piping welds using a new structural stress method - N° 1/2 (January-February).
- Prager M., Thorwald G.V., Anderson T.L. (USA) - IIW-1580-02 (ex-doc. XI-770-02) - Effect of materials and geometrical variables on creep behaviour of welds - N° 5/6 (May-June).
- Shinoda T. (Japan) - IIW-1600-03 (ex-doc. III-1245-03) - Recent topics of FSW technology in Japan - N° 11/12 (November-December).
- Sirén M., Mononen J., Hänninen H. (Finland) - IIW-1638-03 (ex-doc. III-1263-03/III-B-011-03) - Cost comparison of FSW and MIG welded aluminium panels - N° 11/12 (November-December).
- Staines D.G., Thomas W.M., Norris I.M., de Frias R. - IIW-1639-03 (ex-doc. III-1264-03/III-B-013-03) - Friction stir welding – Tools and developments - N° 11/12 (November-December).
- Suzuki N., Ohta A., Maeda Y. (Japan) - IIW-1597-02 (ex-doc. XIII-1923-02) - Fatigue strength of corner welded web stiffeners joints in synthetic seawater obtained by  $\sigma_{\max} = \sigma_y$  testing - N° 1/2 (January-February).

Suzuki N., Ohta A., Maeda Y. (Japan) - IIW-1582-02 (ex-doc. XIII-1922-02) - Shift of S-N curves with stress ratio - N° 1/2 (January-February).

Suzuki N., Ohta A., Maeda Y. (Japan), Maddox S.J. (United Kingdom) - IIW-1583-02 (ex-doc. XIII-1924-02) - Fatigue strength improvement of lap welded joints by low transformation temperature welding wire -superior improvement with strength of steel - N° 3/4 (March-April).

Szelagowski A., Bach F.W., Versemann R., Zelt M. (Germany) - IIW-1566-02 (ex-doc. IV-823-02) - Non vacuum electron beam welding of light sheet metals and steel sheets - N° 3/4 (March-April).

Terasaki T., Akiyama T. (Japan) - IIW-1601-03 (ex-doc. III-1252-03/III-B-005-03) - Mechanical behaviour of joints in FSW - N° 11/12 (November-December).

Thomas W.M., Staines D.G., Norris I.M., de Frias R. - IIW-1639-03 (ex-doc. III-1264-03/III-B-013-03) - Friction

stir welding – Tools and developments - N° 11/12 (November-December).

Thorwald G.V., Anderson T.L., Prager M. (USA) - IIW-1580-02 (ex-doc. XI-770-02) - Effect of materials and geometrical variables on creep behaviour of welds - N° 5/6 (May-June).

Versemann R., Bach F.W., Szelagowski A., Zelt M. (Germany) - IIW-1566-02 (ex-doc. IV-823-02) - Non vacuum electron beam welding of light sheet metals and steel sheets - N° 3/4 (March-April).

Visser-Uys P. (South Africa), Farkas J., Jármai K. (Hungary) - IIW-1588-02 (ex-doc. XV-1101-02) - Cost comparison of bolted and welded frame joints - N° 1/2 (January-February).

Zelt M., Bach F.W., Szelagowski A., Versemann R. (Germany) - IIW-1566-02 (ex-doc. IV-823-02) - Non vacuum electron beam welding of light sheet metals and steel sheets - N° 3/4 (March-April).