جامعة الدمام
UNIVERSITY OF DAMMAM

10TH ADS

2-3 MAY, 2012

DENTISTRY IN THE EVIDENCE-BASED PRACTICE ERA

ADS

Table of Contents

	Page
10th ADS Information	3
Message of the Dean, College of Dentistry University of Dammam	4
Message of the Chairman, Organizing Committee	5
10th ADS Committee Roster	6
Scientific Program May 2, 2012	7
Scientific Program May 3, 2012	8
Speakers:	
Dr. Richard Niederman	10
Evidence-Based Workshop	11
Dr. Carlos Sabrosa	12
Adhesion in Prosthodontic Workshop	13
Dr. Nadim Baba	14
Implant Supported Overdenture Workshop	15
Dr. Clifford John Munce	16
Overcoming Endodontic Challenge Workshop	17
Dr. Nikitas Sykaras	18
Dr. Ahmed Basyouni	19
Dr. Khalid Hassan	20
Dr. Omar Mansour	21
Dr. Shahid Mahmood	22
Dr. Ulrich Wegmann	23
Exhibitors	24

10th ADS Information

Introduction:

Evidence-based dentistry (EBD) is a fast-growing concept in teaching and practicing dentistry. Contrary to the traditional approach with relies on the cumulative experience and any kind of research, EBD adopts "the integration of best research evidence with clinical expertise and patient values." In addition it concentrates on "the conscientious, explicit, and judicious use of best evidence in making decisions about care of individual patients." Therefore the success of treatment in dentistry is directly related to properly applying this approach in practice.

The 10th Annual Dental Symposium will be held under the theme "*Dentistry in the Evidence-based Practice Era*" in order to emphasize the importance of applying the EBD approach in dental practice to achieve better outcomes and maximum patient comfort and satisfaction.

General Goal:

The symposium aims at increasing participants awareness about evidence-based dentistry and emphasizes the importance of applying it and the benefits realized from it

- Emphasize the importance applying EBD in dental practice
- Discussion of the latest evidence in various disciplines of dentistry
- Participation in the group discussions that enriches knowledge

Dean's Message

It gives me great pleasure to welcome you all to the 10th Annual Dental Symposium of the College of Dentistry University of Dammam. It has been one decade that we are meeting once a year with one common goal as oral healthcare providers which is to sustain and develop our craft and to share the latest knowledge in dentistry.

Our challenge was to create a scientific program that would warrant your interest and desires as Oral Healthcare providers. The Organizing Committee invited an outstanding cadre of international and local speakers to deliver lectures that caters to almost all fields of dentistry that can be applied in the dental practice today.

I congratulate the Organizing Committee, Faculty, Demonstrators, Residents and Staff, and the dental students of the College of Dentistry for their creativity and enthusiasm in organizing this successful event.

As the Dean of the College of Dentistry it is my wish that all participants, attendees and guests would have a wonderful and fruitful time with the program.

Thank you and see you in all upcoming continuing education activities.

Dr. Fahad Al Harbi

Dean, College of Dentistry

Chairman's Message

On behalf of the Organizing Committee, it is indeed a great pleasure to welcome you all to our 10th ADS (Annual Dental Symposium). Our theme this year, "Dentistry in the Evidence-based Practice Era", reflects the approach that is ought to be adopted by all healthcare providers simply because it "integrates the best research evidence with clinical expertise and patient values". In addition it concentrates on "the conscientious, explicit, and judicious use of the best evidence in making decisions about the care of individual patients".

The organizing committee made great efforts to guarantee the presence of keynote international speakers who can emphasize the importance of applying the EBD approach in dental practice in order to achieve better outcomes and maximum patient comfort and satisfaction. The scientific program was carefully tailored to achieved that goal.

For the first time in the Eastern province there is a full-day workshop on EBD that will expand on the tenets of this approach. In addition we have three other workshops on Endodontics, Adhesion in Prosthodontics, and Implant-Supported Overdentures.

The Exhibition of the 10th ADS is bigger than ever. With more than 15 leading exhibitors in Saudi Arabia, I am quite confident that you would find the latest technology and materials in all fields of dentistry. I encourage you to spend some quality time there.

I would like to thank all members of the Organizing Committee, faculty members, demonstrators, residents, administration and clinic staff, and dental students for their unlimited support, devotion, and sacrifices they made to make the 10th ADS a successful event.

I Wish you all an enjoyable and memorable symposium.

Dr. Asim Al Ansari

Vice Dean for Academic Affairs /

Chairman, 10th ADS,

College of Dentistry

10th ADS Organizing Committee

Chairman: Dr. Asim Al Ansari

Faculty Members

Dr. Khalifa Al Khalifa - Scientific
Dr. Emad Al Shwaimi - Exhibiton
Dr. Adel Al Agl - Registration
Dr. Aws Ar Rejaie - Hospitality
Dr. Hosam Baeshen - Opening & Closing
Dr. Rasha Alsheikh
Dr. Aiman Al Ali
Dr. Balqis Gaffar
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Dr. Ahmad Al Sulaiman
Dr. Ammar Al Ghadeer
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Melanie Perez
Maribel Pantin

SCIENTIFIC PROGRAM

MAY 2, 2012
WEDNESDAY

Time	Presentation Title	Presenter
8:30 – 9:20	Evidence-based Dentistry: 3 Part Harmony in 5 Steps	Richard Niederman
9:20 – 10:10	Managing Perforations, Separated Instruments, Post Removal, Silver Points and Severe Calcification	Clifford John Munce
10:10 – 11:00	All Ceramic Restorations: Treatment Planning and Patient Management	Nadim Baba
11:00 – 1:00	Opening Ceremony	
	Poster and Exhibition	
	Lunch Break Prayer Time	
1:00 – 1:50	Screw Retained *vs* Cemented Implant Restorations	Nikitas Sykaras
1:50 – 2:40	Overcoming Extreme Isolation Challenges	Clifford John Munce
2:40 – 3:30	Evidence-based Dentistry: Esthetics & Bleaching	Richard Niederman
3:30 – 3:45	Coffee Break	
3:45 – 4:35	Improvement of function aspects for occlusal reconstruction by the electronic registration system ARCUSdigma 2	Ulrich Wegmann
4:35 – 5:00	Grafting of impacted third molar extraction sockets to prevention periodontal disease in the future	Khalid Hassan
5:00 – 5:25	Current Status of Operative Dentistry	Shahid Mahmood

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SCIENTIFIC PROGRAM

MAY 3, 2012
THURSDAY

Time	Presentation Title	Presenter
8:30 – 9:20	Immediate Loading of Dental Implants: Scientific Evidence and Clinical Applications	Nikitas Sykaras
9:20 – 10:10	Current Practices in Implant-Supported Overdenture for the Contemporary Dentist	Nadim Baba
10:10 – 11:00	Practicing Prosthodontics in Adhesive Dentistry Era Anecdotal Evidence or Evidence-based Dentistry Part I	Carlos Sabrosa
11:00 – 11:15	Coffee Break	
11:15 – 12:05	Practicing Prosthodontics in Adhesive Dentistry Era Anecdotal Evidence or Evidence-based Dentistry Part II	Carlos Sabrosa
12:05 – 12:30	Evidence Based Orthodonthics (EBO)	Ahmed Basyouni
12:30 – 12:55	Spilt Bundle Rib Grafts in Mandibular Reconstruction After Tumor Resection	Omar Mohamad Mansour
12:55 – 1:30	Lunch Break Prayer Time	

SPEAKERS

Dr. Richard Niederman
The Forsyth Institute,
Boston, USA

Lectures:

Introduction to Evidence-Based Dentistry: 3 Part Harmony in 5 Steps

This interactive seminar introduces the 5 steps of evidence-based dentistry, focusing on rapid application in practice. Simultaneously the seminar integrates the current best evidence with clinical experience and patient needs and circumstances to improve care.

EBD Esthetics and Bleaching

This interactive seminar builds on the 5 steps of EBD, and examines esthetics of bleaching using a randomized controlled trial.

Evidence-Based Dentistry Workshop

The Evidence-based dentistry (EBD) workshop will provide participants with hands-on interactive experiences with all aspects of EBD:

- asking a PICO question
- searching PubMed for answers
- critically appraising published studies, and
- implementing this information in practice.

Dr. Carlos Sabrosa
Universidad Estadual do Rio de Janeiro, Brazil

Lectures:

Practicing Prosthodontics in the Adhesive Dentistry Era. Anecdotal Evidence or Evidence-Based Dentistry? Part I and II

The practice of esthetic dentistry allied to adhesive dentistry is reality today. With the improvement of restorative dental materials, new techniques and systems are available to fabricate dental restorations supported by teeth and implants. The potential of bonded restorations increase the number of indications for esthetic procedures.

The main objective of most esthetic systems today is to replace porcelain fused-to-metal restorations with metal-free restorations without changing the procedures usually used by the restorative dentistry. Esthetic procedures can only be achieved when there is a good relationship between the restorative dentist and the dental technician.

The main objective of this lecture is to show evidence-based requirements that should be followed such as tooth preparation design and tooth surface arrangements, adhesive cementation as well as other steps throughout the prosthodontic treatment to optimize your results.

Adhesion in Prosthodontics Workshop

Tooth preparation is defined as the mechanical treatment of dental disease or injury to hard tissues that restores a tooth to original form. Reduction of tooth structure is preceded by a mental image of the design of the artificial crown and the anticipated occlusion. The design of a preparation is governed by five principles: preservation of tooth structure, retention and resistance form, structural durability, marginal integrity and preservation of the periodontium.

There are several possibilities in tooth preparation design including complete and partial coverage designs. Depending on remaining tooth structure, dentists should decide on an ideal design. With improvement in dental materials and special in adhesive systems, tooth preparation design should be modified to achieve best results. A premise that should be communicated to the patient and understood by the technician and dentist is that crowns are usually placed on compromised teeth.

Despite these advances, traditional crowns are still indicated for the majority of patients. The classic design for the preparation must be visualized so modifications can be instituted. Diagnosis and disciplined tooth preparation are essential to successful fixed prosthodontics. With the advance in technology and materials field new techniques are proposed as standard procedures. The main objective of this hands-on course is to show requirements and a step-by-step procedure that should be followed in tooth preparation design to optimize your results. After a 30 minutes lecture and demonstration of the instructor all participants will be given a typodont to practice on complete coverage crowns and laminates specially designed for adhesive cementation.

Dr. Nadim Baba
Loma Linda University,
California, USA

Lectures:

All Ceramic Restorations: Treatment Planning and Patient Management

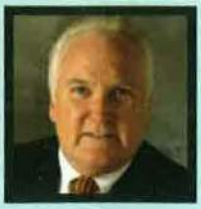
Clinicians have access today to a notable array of new technology, tools and materials to utilize in their increasingly esthetic oriented dental practices. A wide variety of all-ceramic systems have been introduced to offer the dentist and their patients unsurpassed esthetics with clinical performance is marketed as rivaling that of metal-ceramic restorations. These systems are now increasingly reliable and enable cost-effective production of individual crowns. This presentation will review the different commercially available all-ceramic systems. Numerous treatment situations will be used to illustrate the use of porcelain laminate veneers.

Current Practices in Implant-Supported Overdenture for the Contemporary Dentist

Restoring the edentulous patient with implants presents numerous challenges to the clinician. These challenges can vary from simple functional and esthetics problems to more complicated ones. This presentation will discuss diagnosis, treatment planning and complications of implant overdentures. A variety of treatment options and prosthesis designs will be described. Many clinical situations will be presented with a step-by-step simplified approach to provide final prostheses that meet patients' expectations from esthetic and functional perspectives.

Implant-Supported Over Denture Workshop

Implant-supported overdenture therapy is becoming a commonly accepted method of providing tooth replacement therapy for the edentulous mandible. This simulation hands-on course will provide laboratory steps needed to reline and/or the intraoral refitting of existing dentures with the over-denture attachments. The emphasis of this course will be on free-standing overdenture attachments (Locator™, Zest Attachments). The indications, complications and maintenance issues will be discussed. The hands-on exercises will allow participants to familiarize themselves with the various implant/prosthetic components with prosthetic training kits.



Dr. Clifford John Munce
Loma Linda University,
California, USA

Lectures:

Managing Perforations, Separated Instruments, Post Removal, Silver Points and Severe Calcification

The ever-increasing popularity of dental implants challenges the rationale for complex endodontic procedures. Absent creative and time-tested methods for managing difficult endodontic cases, this challenge would go unanswered. Using high-magnification clinical videos, this lecture will present a variety of off-label methods using common dental devices, materials and instruments in uncommon ways to achieve superior endodontic results that can help patients to retain their natural dentition. *We're endo-savvy dentists; we save teeth….*

Overcoming Extreme Isolation Challenges

If the challenge of achieving ideal isolation in the most complex of cases goes unanswered, then endodontic therapy will often be justifiably deselected in favor of extraction and implant or bridge. Using high-magnification clinical videos, this lecture will present a variety of off-label methods using common dental devices, materials and instruments in uncommon ways to achieve ideal endodontic isolation that can help patients to retain their natural dentition. Cases of extra-canal invasive resorption will also be shared. *We're endo-savvy dentists; we save teeth….*

Overcoming Endodontic Challenges Workshop

Step by step guidance will be provided via high magnification clinical videos as well as real-time video capture during the workshop to instruct the participants in the management of isolation challenges, silver point removal, separated instrument removal and calcified canals. Participants will work on extracted teeth and or tooth analogs and will learn valuable clinical skills.

Dr. Nikitas Sykaras
University of Athens,
Greece

Lectures:

Screw Retained vs Cemented Implant Restorations

Implant supported restorations present a wide spectrum of clinical applications in modern dentistry. The implant supra-structures can be either cemented or screw retained and the mode of retention plays an important role for clinical success and prosthesis longevity. Cemented restorations have advantages and limitations while screw retained prostheses are the only clinical alternative in specific clinical situations. When is it better to use one over the other? What does the clinician need to know? This presentation will cover the indications of both retention modes and analyze their advantages, difficulties and possible complications that may develop offering suggestions for their solution. Many hints of their clinical application will be covered that will help clinicians in every day practice through the best available evidence.

Immediate Loading of Dental Implants: Scientific Evidence and Clinical Applications

Dental implants usually require a period of time after installation to achieve osseointegration. The advances in implant design and material science together with available documentation from clinical and experimental studies allow under certain conditions the immediate loading of dental implants. The patient can enjoy function and esthetics of an implant supported restoration immediately after surgical placement. However, strict criteria and caution must be exercised. Several factors must be carefully evaluated for immediate loading to be successful which will be discussed in the presentation. This lecture will analyze the various parameters that affect our decision and will present clinical cases where immediate loading was the treatment of choice.

Dr. Ahmed Basyouni
University of Dammam,
Dammam, KSA

Lectures:

Evidence Based Ortodontics (EBO)

The goal of evidence based orthodontics (EBO) is to assist the clinician in delivering the most effective, efficient, and predictable treatment outcomes. Evidence-based orthodontics now attracts much attention but not all are impressed. Experience based protocol is not sufficient, but rather the standard of care should be a focus on conclusive scientific research in conjunction with clinical expertise, keeping in mind the most importance criteria to provide the best for our patients.

The strongest evidence is gained from randomized clinical trials. Properly performed meta-analysis studies provide the second-best evidence. The third level of evidence is retrospective or prospective longitudinal studies that monitor a group over time. Fourth level, is the review article. Fifth level is a cross-sectional study that analyzes data from a single point in time. Case studies are typically the weakest evidence and are ranked at the sixth level.

The take home message, EBO is an integration of the best research evidence, clinical expertise and patient values for best treatment outcomes.

Dr. Khalid Hassan
University of Dammam,
Dammam, KSA

Lectures:

Grafting of impacted third molar extraction sockets to prevent periodontal disease in the future

The present study was designed to evaluate the grafting of the periodontal osseous defect distal to mandibular second molar compared to a non-grafted extraction sites after removal of impacted mandibular third molars. We used a single-blind, randomized, controlled clinical trial and a sample composed of subjects at high risk for developing periodontal osseous defects distal to M2 after M3 extraction, age 30-35 years, pre-existing osseous defects distal to M3, and horizontal M3 impaction . The M3 extraction sites were grafted with anorganic xenograft plus a membrane. The other site received a full-thickness flap and extraction of third molar without placement of grafting materials. The study was composed of Twenty-eight sites, which were selected by using a split mouth design for each patient and this was determined randomly through a biased coin randomization. Twelve months after M3 removal, there was a statistical significant gain in clinical attachment level and reduction in probing pocket depth in the grafted sites compared to non-grafted sites ($P \leq 0.001$). Moreover, there was a significant difference in alveolar bone height at the monitoring periods were found for grafted sites compared to non-grafted sites ($P \leq 0.001$). Grafting of osseous defects distal to mandibular second molars with anorganic xenograft plus a membrane will predictably result in significant probing pocket depth reduction, clinical attachment level gain, and bone fill, suggesting that grafting the extraction sites with anorganic xenograft plus a membrane could prevent periodontal disease in the future.

Dr. Omar Mansour
University of Alexandria, Egypt

Lectures:

Splint Bundle Rib Grafts In Mandibular Reconstruction After Tumor Resection: Policy of Maxillofacial and Plastic Surgery Department

Mandibular defects could result from trauma, inflammatory diseases, benign and malignant tumors. Mastication, speech and facial aesthetics are often severely compromised without reconstruction. The goal of mandibular reconstruction is to restore facial form and function, implying repair of mandibular continuity and muscle attachments. There should also be room for implant insertion to allow for rehabilitation of occlusion and articulation. Mandibular reconstruction principles and techniques have evolved dramatically over the years. Refinements in techniques continue to improve patient quality of life. The aim of this presentation is to explain our maxillofacial and plastic surgery department experience in the use of split rib bundle graft in mandibular reconstruction after tumor resection.
Our results demonstrated that this technique could be useful in the reconstruction of the mandible after benign tumor resection with defects up to 8-10cm with no extensive soft tissue defects. Three years follow up of our cases showed good take of the graft in the implantation sites in most cases with no donor site morbidity. However, only one case showed infection and resorbtion of the graft in the implantation site.

Dr. Shahid Mahmood
Prince Salman Bin Abdulaziz University, Alkharj KSA

Lectures:

Current Status of Operative Dentistry

Operative Dentistry has been traditionally based on extension for prevention concepts. However, evidence has indicated over past 30 years that the treatments based on these concepts have resulted in loss of tooth structure with deterioration of dental health. A study conducted by the S Mahmood (Presenter) and Prof RJ Smales compared the dental health of 50 patients each in Australian and Pakistan dental practice environments retrospectively over a period of ten years, and despite vastly different practice environments, there was an overall deterioration in dental health over this period, which could be attributed to an outdated treatment philosophy. This lecture would describe this study and describe an updated philosophy of operative dentistry in the evidence of this study.

Dr. Ulrich Wegmann
Bonn University,
Welschonnenstr, Germany

Lectures:

Improvement of function aspects for occlusal reconstruction by the electronic registration system ARCUSdigma 2

Increasingly the spectrum of used materials for fixed and removable prosthesis changes in favour of full ceramic systems. This is not only wished by our patients but is almost expected. The increasing emphasis on cosmetic aspects intensivy this trend. Also the constantly rising precious metal prices, opposed to the sinking prices of full ceramic restorations, make this development economically more meaningful. We must consider the fact that new materials make often also different demands for the production of the workpiece or offer in some aspects a smaller error tolerance. The straight ceramic systems, which are manufactured on zirconoxide-ceramic basis, point out this problem clearly with the chipping. In the past, when using high-noble-alloys, an insufficient functional design of the occlusal surface was corrected by the patient himself by abrasion. This does not apply accordingly to ceramic systems with their clearly higher abrasion strength. Also it could be proven that any chairside correction of the occlusal surface causes a significant loss of strength and a higher probability of chipping. This problem is intensified by the loss of periodontal information about load impact on implant supported restorations. Only a very accurate functional design of the occlusal surface already in the laboratory can minimise these problems.

EXHIBITORS

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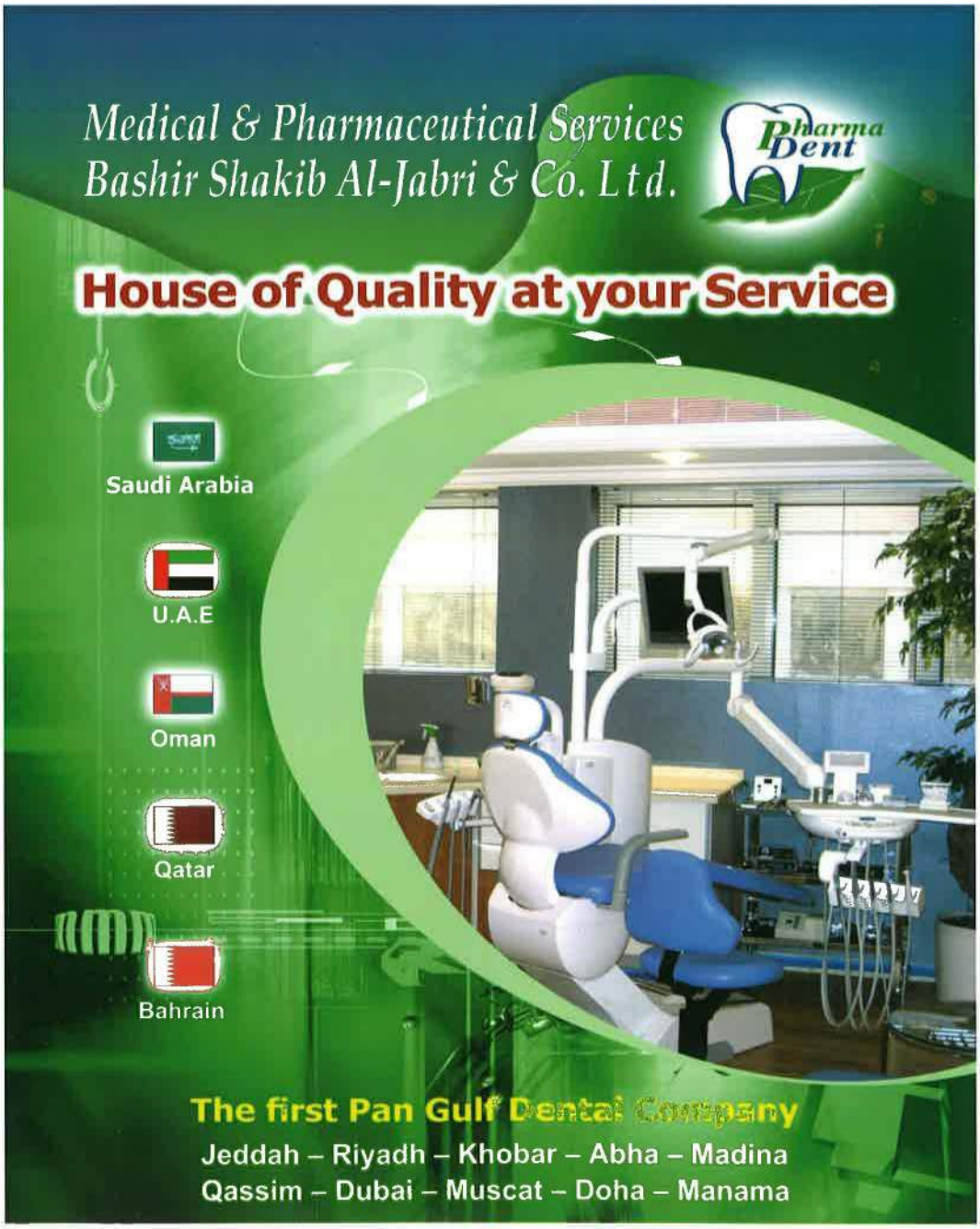

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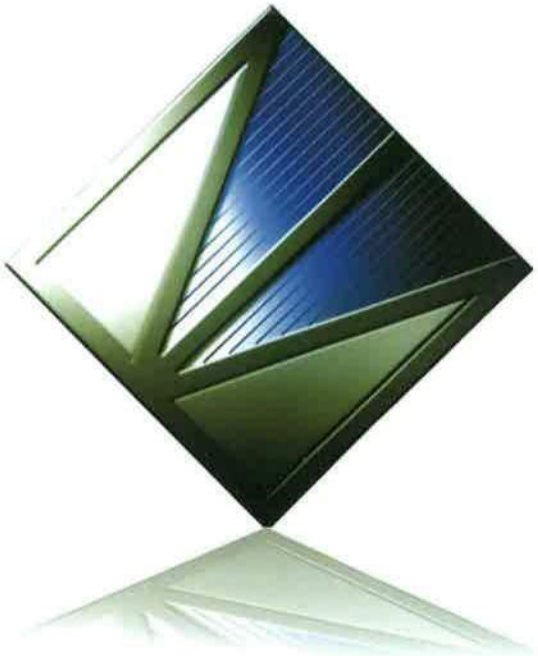

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