Dr. Martin Alm is technical director of the European Fat Processors and Renderers Association, as well as director of Dr. Alm Research and Consulting.

He is a consulting board member of the German Renderers Association and member of the Research Committee of the Fat and Protein Research Foundation.

Alm started his career at SARIA Bio-Industries, a leading European rendering company, where he was responsible for research and development and regulatory affairs.
Rendered Products Worldwide

Dr. Martin Alm
European Fat Processors and Renderers Association
Dr Martin Alm
EFPRA Technical Director
WRO Scientific Advisory Panel

WWW.WORLDRENDERERS.ORG
WRO & the World of Animal by-Products

✓ Renderers are a vital link in the Food Chain
✓ Renderers collect animal by-products [ABP] from livestock production [farming]
✓ Animal by-products contain natural resources Proteins, Fats, Minerals BUT are also highly degradable... due to presence of water and natural microflora.
✓ Renderers process ABP by evaporation, sterilisation and stabilisation of products.
✓ Rendered products... are valuable resources
WRO position in Foodchain [simplified]

Assume Feed is start of chain

Livestock Production

Meat

Milk ~ Eggs

ABP [75*]

...WRO members...

Proteins [15*] Fats [10*]

* million tonnes pa

Non animal feed uses
Rendering: Simplified Process Flow diagram

1. Raw material
2. Sizing
3. Drying/Cooking
4. Pressing
5. Cooling
6. Grinding
7. Decanting
8. Centrifuge

Processed Proteins “MBM” or “PAP”
Rendered Fat “Tallow”
Rendered Products

Rendered Animal Protein Meal [MBM or PAP] and Rendered Animal Fats [Tallow]
Processed Animal Protein Meal Production Estimates

- Australia, 720,000, 6%
- New Zealand, 214,300, 2%
- Turkey, 185,600, 1%
- United States, 4,026,800, 31%
- South America, 3,970,578, 30%
- European Union, 3,950,000, 30%

Total Global Production: 13+ million metric tons
Protein Meals

• Processed Animal Proteins
• 50% Meat & Bone Meal
• Porcine Meal
• Poultry By-Product Meal – Feed Grade
• Poultry By-Product Meal – Pet Food Grade
• Feather Meal
• Blood Meal
• Greaves Meal
• Fish Meal
Global Animal Fat Production Estimates

- United States, 4,264,500, 42%
- South America, 2,278,379, 23%
- European Union, 2,772,000, 28%
- Australia, 550,000, 5%
- New Zealand, 140,000, 1%
- Turkey, 84,179, 1%

Total Global Production: 10+ million metric tons
Rendered Fats & Oils

- Edible Tallow
- Edible Lard
- Tallow, Bleachable Fancy Tallow (BFT)
- Choice White Grease (CWG)
- Poultry Fat (PF)
- Yellow Grease (YG) (UCO)
- Brown Grease

- Listed in order of highest quality and price to lowest.
CFP of different fats and oils

Source: Hans Blonk, EFPRRA Congress 2010
CFP of different proteins

Source: Hans Blonk, EFPRA Congress 2010
Focus on key areas

✓ Biosecurity: Key step for reducing the potential ....for livestock diseases

✓ Nutrition: Optimum for farmed livestock & companion (pet) animals

✓ Environment: Minimise environmental pollution of the air, water, earth.

✓ Sustainability: Maintain the natural production capacity without adverse environmental impact

✓ Biofuels: Utilisation non-(human food)resources
Thank you

Contacting WRO

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