## Welcome and Opening Remarks

8:00 am – 8:15 am (PST)

- Acknowledgement/Housekeeping  
  *Lais Costa*
- Welcome  
  *Michael Ziccardi*
- Opening Remarks  
  *Mark Meyers*

## Nutrition

### 1.5 CEU PENDING

8:15 am – 9:00 am

- Vitamin E/SE Deficiency and Toxicity Issues in Donkeys  
  *Erin Goodrich*

9:00 am – 9:35 am

- Understanding Diets of Free-Roaming Donkey  
  *Sara Jerele*

9:35 am – 9:50 am

- Virtual Break: Short Film – About the Peaceful Valley Rescue

9:50 am – 10:35 am

- Rewilding Alternative Grazing  
  *Fiona Cooke*

10:35 am – 11:20 am

- Building a good donkey diet - food pyramid for donkeys  
  *Clair Thunes*

11:20 am – 11:35 am

- Panel Discussion with All Nutrition Speakers  
  *Erin Goodrich, Sara Jerele, Fiona Cooke, & Clair Thunes*

11:35 am – 12:35 pm

- Virtual Lunch Break: Documentary Film: Without A Voice, The Eradication of Australia’s Wild Donkeys by PVDR

## Digestion: How Digestion is Impacts and is Impacted by Nutrition

### 2 CEU PENDING
<table>
<thead>
<tr>
<th>Time</th>
<th>Schedule</th>
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</table>
| 12:35 pm – 1:10 pm | **Digestion starts at the Mouth: Oral and Dental Care**  
Joao Rodrigues |
| 1:10 pm – 1:45 pm | **Stomach: How Diet Affects and Heals Ulcers**  
Francesca Compostella |
| 1:45 pm – 2:20 pm | **Diet and the Effects of Hindgut Fermentation: Cecum & Colon**  
Emanuela Valle & Federica Raspa |
| 2:20 pm – 2:35 pm | **Panel Discussion with All Digestion Speakers**  
Joao Rodrigues, Francesca Compostella, Emanuela Valle, & Federica Raspa |
| 2:35 pm – 2:50 pm | **Virtual Break: Short Film - A Day in the Life of New Arrivals** |
|              | **Concurrent Interactive Sessions**  
(participants will be able to attend their top choice or next available choice)  
1 CEU PENDING |
| 2:50 pm – 3:40 pm | **Ear rubs and carrots: Cindy Davis answers donkey questions including the care of geriatric donkeys**  
Cindy Davis |
|              | **Nutritional Care for Donkey and Mule Foals**  
Gary Magdesian |
|              | **What about Mules? They have long ears too**  
Amy McLean |
|              | **My donkey is shaggy and less active, how should I feed him?**  
Emily Berryhill |
|              | **Safe Weight Loss: Preventing Hyperlipemia**  
Clair Thunes |
| 3:40 pm – 3:45 pm | **Virtual Break: Short Film - The Donkey Sanctuary** |
| 3:45 pm – 4:35 pm | **News Hour: Donkeys and Mules in the World**  
Derek Knottenbelt, Eric Davis, and Joao Rodrigues |
### DONKEY WELFARE SYMPOSIUM
**NOVEMBER 13, 2021 - NOVEMBER 14, 2021**
**LIVE WEBINAR | 7.5 CEU PENDING**

#### Keynote Session

<table>
<thead>
<tr>
<th>Time</th>
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<th>Presenter(s)</th>
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<tbody>
<tr>
<td>4:40 pm – 5:30 pm</td>
<td>“Hard to Digest Donkey Welfare Issues”</td>
<td>Eric Davis</td>
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#### Sunday, November 14, 2021

8:00 am – 2:00 pm (PST)

#### Implications and Management of Nutrition and "Dysnutrition"

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<td>Alex Thiemann</td>
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<td>Endocrine Disorders of Donkeys and Link of Laminitis</td>
<td>Ramiro Toribio</td>
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<td>9:10 am – 9:45 am</td>
<td>Managing the Laminitic Donkey</td>
<td>Alex Thiemann</td>
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<td>9:45 am – 10:00 am</td>
<td>Virtual Break: Short Film 4: Peaceful Valley Donkey Rescue</td>
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<td>10:00 am – 10:35 am</td>
<td>How can we address the donkey’s weight and help owners get it right?</td>
<td>Tamzin Furtado</td>
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<td>10:35 am - 11:10 am</td>
<td>Supplements, Trace Minerals and Hoof Quality</td>
<td>Eric Davis</td>
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<tr>
<td>11:10 am – 12:00 pm</td>
<td>Round table of Foot Care for Donkeys and Mules</td>
<td>Alex Thiemann, Eric Davis, Ramiro Toribio, Tamzin Furtado, &amp; Amy McLean</td>
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#### Concurrent Interactive Sessions

( participants will be able to attend their top choice or next available choice)

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<td>Why should I bother about dental care if my donkey is too fat?</td>
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11/12/2021
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<td>Enrichment Activities for Donkeys</td>
<td>Ben Hart</td>
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<td>Closing Remarks</td>
<td>Mark Meyers and Lais Costa</td>
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Learning Objectives

After the event, participants will be able to:

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<td>Vitamin E/SE Deficiency and Toxicity Issues in Donkeys</td>
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<tr>
<td>Erin Goodrich</td>
</tr>
<tr>
<td>▪ Understand the basic functions of vitamin E and selenium in equids</td>
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<td>▪ Recognize the clinical presentations of both vitamin E and selenium deficiency and toxicity issues in equids</td>
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<tr>
<td>▪ Develop knowledge of effective strategies for supplementation of both vitamin E and selenium in equids</td>
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<td><strong>Understanding Diets of Free-Roaming Donkey</strong></td>
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<td>Sara Jerele</td>
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<tr>
<td>▪ Know main plant families present in burro diets in Death Valley.</td>
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<tr>
<td>▪ Learn about dietary preferences and diversity of diets for burros and other wildlife in Death Valley.</td>
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<tr>
<td>▪ Overlap among diets and dietary interactions between different species in Death Valley.</td>
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Ear rubs and carrots: Cindy Davis answers donkey questions

Learn the techniques that an experienced donkey handler utilizes to safely get donkeys to accept routine procedures such as hoof trimming.

Gain a basic understanding of how to feed a geriatric donkey with dental problems.

Learn about how a simple and effective method of dispensing treats and mineral supplements to donkeys.

Learn how to prepare a donkey for vaccine injections.
Rewilding Alternative Grazing  
*Fiona Cooke*

- Understand and evaluate alternative approaches to traditional grazing management for donkeys, and analyse their appropriate application for individual donkey requirements
- Recognize the animal welfare benefits of offering environmental choice and enrichment within the land available, and evaluate how to apply this in different contexts
- Identify, and have the knowledge to develop and create, opportunities to enhance donkey welfare in integration with sustainable land management

Building a good donkey diet - food pyramid for donkeys  
*Clair Thunes*

- How to select quality forage for donkeys
- What forage does and does not supply to the donkey diet
- How to fill the gaps not filled by forage

Diet and the Effects of Hindgut Fermentation: Cecum & Colon R  
*Emanuela Valle & Federica Raspa*

- Understand how the management practice can affect the health of the equines and how that should be set to help the function of the gastro-intestinal tract and to meet their ethological need.
- Recognize how feeding practice should be set up according to the unique physiological structure of the gastro-intestinal tract.
- Understand how the management practice can affect the health of the equines and how that should be set to help the function of the gastrointestinal tract and to meet their ethological need.
- Recognize how feeding practice should be set up according to the unique physiological structure of the gastro-intestinal tract.

What about Mules? They have long ears too  
*Amy McLean*

- Cover anatomical differences compared to horses and donkeys
- Discuss body condition scoring compared to horses and donkeys
- Cover physiological and metabolic differences and similarities

My donkey is shaggy and less active, how should I feed him?  
*Emily Berryhill*

- Discuss common clinical signs of pituitary pars intermedia dysfunction (Cushings disease).
- Compare and contrast pituitary pars intermedia dysfunction and equine metabolic syndrome.
- Discuss cornerstones of pituitary pars intermedia dysfunction management.
<table>
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<th>News Hour</th>
<th>Keynote Speaker</th>
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| **Donkeys and Mules in the World**  
*Derek Knottenbelt, Eric Davis, and Joao Rodrigues*  
*Derek Knottenbelt*  
- To understand then pivotal role the donkey has played in the history of mankind and its current vital contribution to the wellbeing and prosperity of millions of people worldwide.  
- To appreciate the current challenges of medical care provision for donkeys in the developing world.  
- To recognize that the donkey is the greenest and most environmentally safe means of transport! | **“Hard to Digest Donkey Welfare Issues”**  
*Eric Davis*  
- Explain different opinions on how feral/wild donkey populations should be managed  
- Failures in adopting donkeys from sanctuaries and rescues  
- Misinformation creating social media sources for donkey care and husbandry |

| Safe Weight Loss: Preventing Hyperlipemia  
*Clair Thunes*  
- How to determine if a donkey needs to lose weight  
- What is required for weight loss to occur  
- Things that can go wrong during a weight loss program |
**Eric Davis**
- Discuss new scientific developments and animal welfare issues in donkeys around the world:
  - The donkey ejiao trade in China
  - New developments in the treatment of skin tumors in donkeys
  - Threats to wild donkey populations in North America, Australia, and Africa

**Joao Rodrigues**
- Learn about the importance of working donkeys and mules worldwide.
- Recognize the threats these animals face in a constant changing world.
- Understand the world distribution of the 118 million equids worldwide.

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**Sunday, November 14, 2021**

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| - How different levels of serum triglycerides need different levels of support | - Understanding the importance of a good vet/farrier relationship and good farriery for donkeys.  
- Improving preventative care of the hoof for owners and vets.  
- Understanding how long term foot problems will impact on quality of life. | - Recognition of overweight donkeys by accurate body condition scoring.  
- Strategies to owners understand that obesity is a welfare issue. |
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| | ▪ Method to calculate energy requirement  
▪ Treatment when donkey no longer eating |
| **Endocrine Disorders of Donkeys and Link of Laminitis**  
*Ramiro Toribio* |
| | ▪ List common endocrine disorders in donkeys  
▪ Explain the association between endocrinopathies and laminitis in donkeys/mules  
▪ List diagnostics and therapies for endocrinopathies in donkeys/mules |
| **Managing the Laminitic Donkey**  
*Alex Thiemann* |
| | ▪ Recognition of laminitis in the donkey, through clinical exam, blood work and pain scoring.  
▪ Medical and supportive treatment of acute and chronic laminitic donkey.  
▪ Nutritional and long term support of chronic laminitic donkey. |
| **Eric Davis** |
| | ▪ Discussion between experts and answering audience questions on hoof trimming techniques, the frequency of hoof trimming, and the relationship of diet to hoof strength and health. Discuss treatments for chronic laminitis. |
| **Ramiro Toribio** |
| | ▪ Describe the importance of nutrition and endocrinopathies on donkey/mules health  
▪ Explain the importance of endocrine management and foot health  
▪ Recognize the value of client education and donkey/mule welfare |
| **Tamzin Furtado** |
| | ▪ Identifying and managing weight issues in equids is difficult for owners due to a range of issues related to the obesogenic environment around equids  
▪ Behaviour change science can be used to underpin veterinary and welfare communications; advocates evidence-based approaches such as empathetic  
▪ Identifying weight management which is based on positive welfare practices (keeping donkeys with their pair bond, with adequate forage and in an enriched environment) is likely to improve both owner and donkey wellbeing during dieting  
▪ How to safely diet a donkey.  
▪ Understand the lack of direct relation between oral disorders and body condition score, mainly in the earlier stages of disorders.  
▪ Recognize the systemic impact that oral disorder in the general health and welfare of donkeys.  
▪ Understand the importance of continuous dental care as an important prophylactic measure. |
| **Enrichment Activities for Donkeys**  
*Ben Hart* |
| | ▪ Be able to assess the need for enrichment  
▪ Identify suitable enrichment exercises for different donkeys  
▪ To plan a program of enrichment |
## How can we address the donkey’s weight and help owners get it right?
*Tamzin Furtado*

- Identifying and managing weight issues in equids is difficult for owners due to a range of issues related to the obesogenic environment around equids.
- Behaviour change science can be used to underpin veterinary and welfare communications; advocates evidence-based approaches such as empathetic.
- Identifying weight management which is based on positive welfare practices (keeping donkeys with their pair bond, with adequate forage and in an enriched environment) is likely to improve both owner and donkey wellbeing during dieting.

### Supplements, Trace Minerals and Hoof Quality
*Eric Davis*

- Attendees will learn to identify the main chemical constituents of hooves.
- Attendees will learn the basic ways in which trace elements are involved in metabolism and cellular functions.
- The following trace elements: Zn, Cu, Se, Mn, Co, and Cr will be discussed as

## Amy McLean
- Provide additional insight on mule hoof care
- Increase the understanding of morphology of mule hooves compared to donkeys and horses
- Discuss common pathologies of mule hoof care
| relates to the ways in which they catalyze the formation of hoof matrix. |
| The cofactor effects of Calcium will be discussed. |